

The diagram illustrates the architecture of a cellular telephone system. At the top, a honeycomb pattern of hexagons represents the cellular layout. Some hexagons contain icons of mobile stations (labeled A through G) with arrows pointing towards the switching offices. Below the cells, three rectangular boxes represent 'MOBILE TELEPHONE SWITCHING OFFICES'. Arrows point from these offices up to the cells they serve. A thick line connects the three switching offices to a single box at the bottom labeled 'CENTRAL TELEPHONE OFFICE'. From this central office, multiple lines extend downwards, labeled 'CONNECTIONS TO WORLD-WIDE TELEPHONE NETWORK'.

4810-PAT/6-1

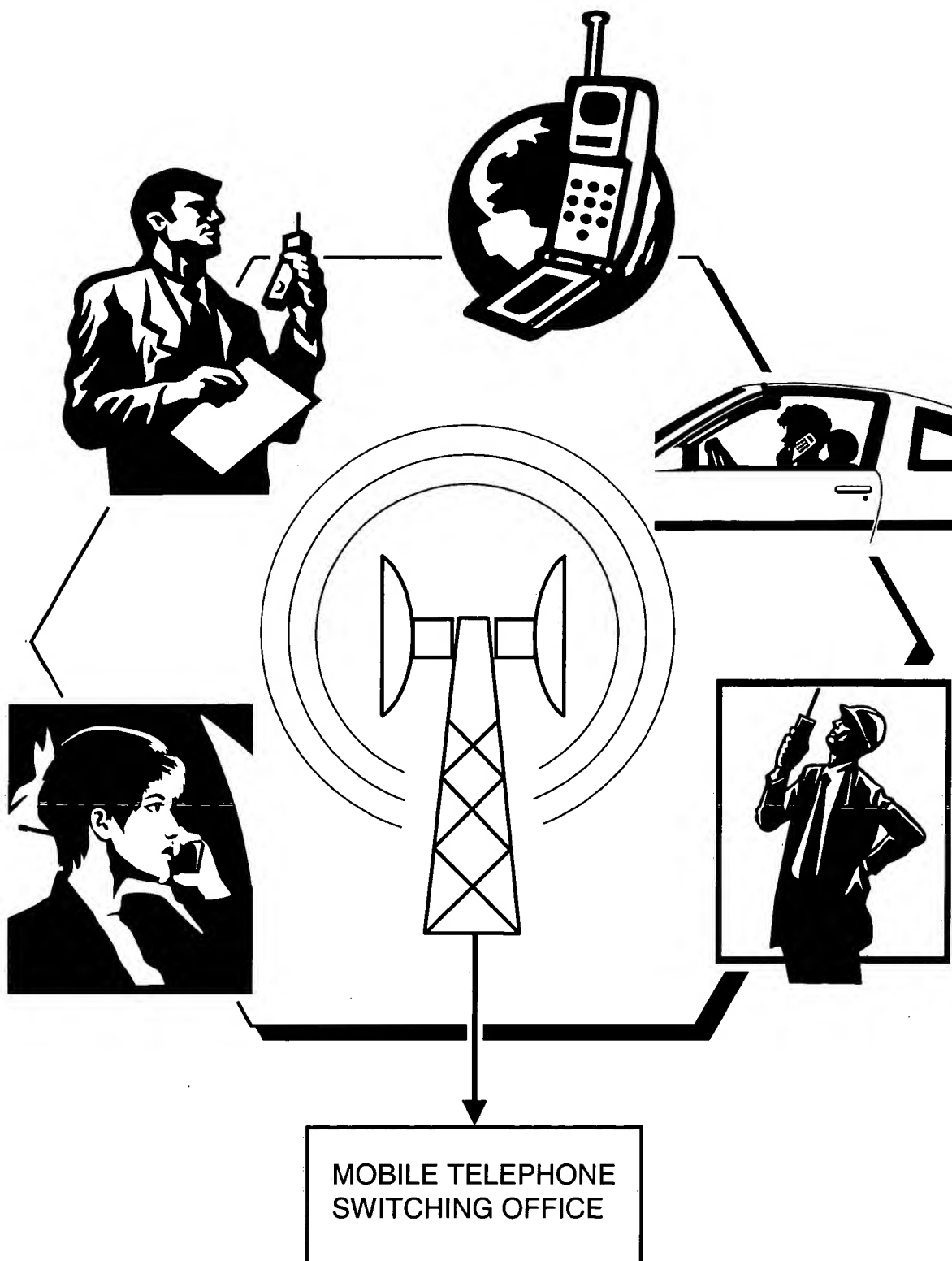


FIG. 2

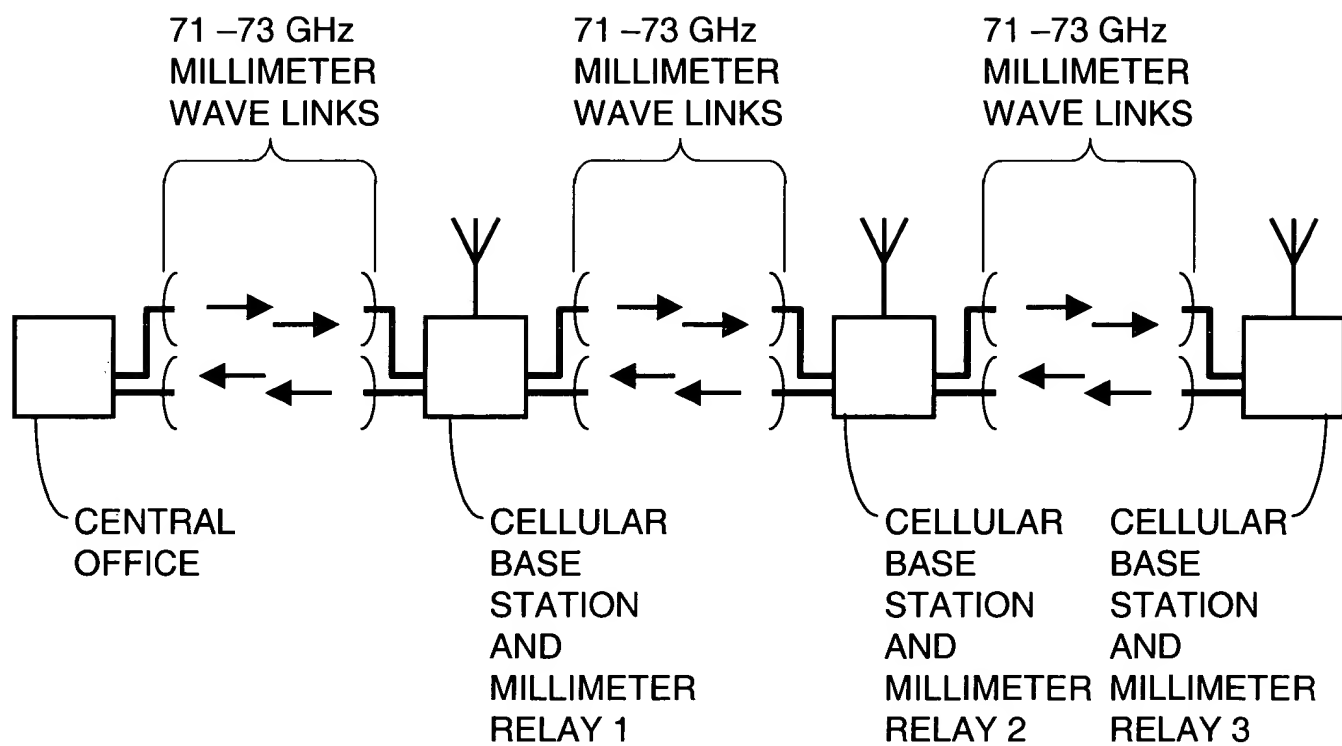


FIG. 3

0965475-0965475

LOCAL OSCILLATOR FREQUENCIES:	
Station 1 = 70.176 GHz	
Station 2 = 70.203 GHz	
Station 3 = 70.230 GHz	
↓	↓
Station 31 = 70.986 GHz	
Station 32 = 71.013 GHz	

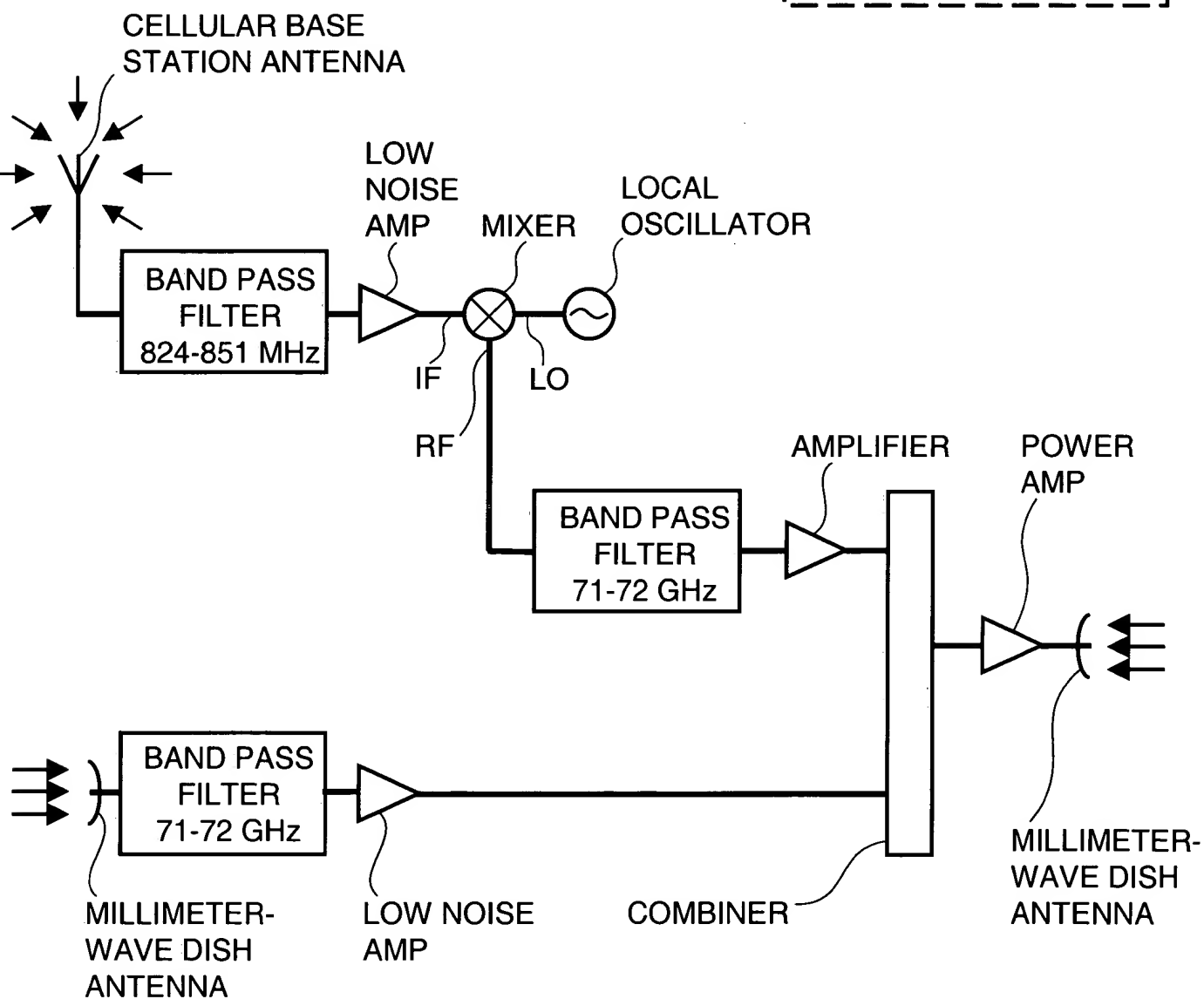


FIG. 4

09659660

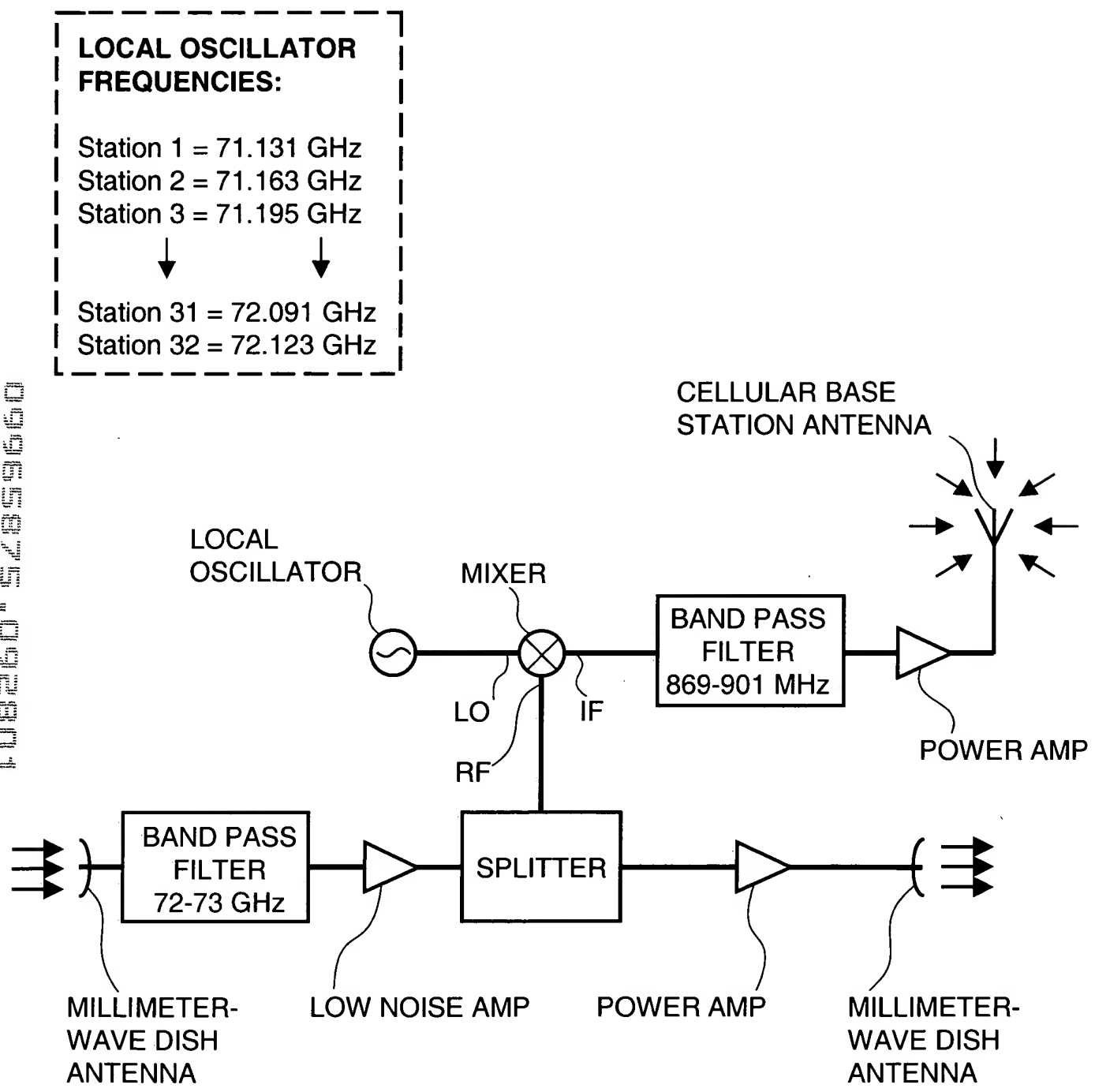


FIG. 5

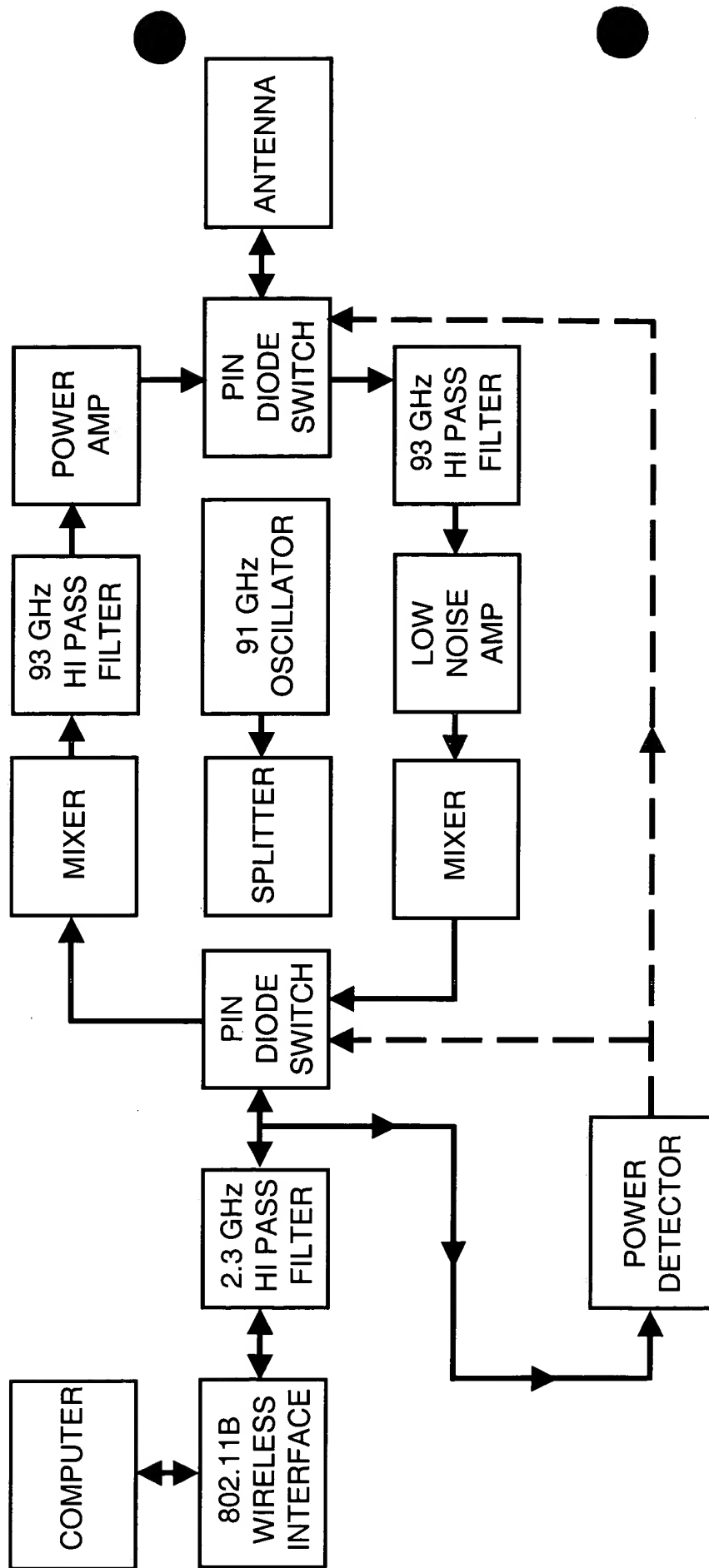


FIG. 6

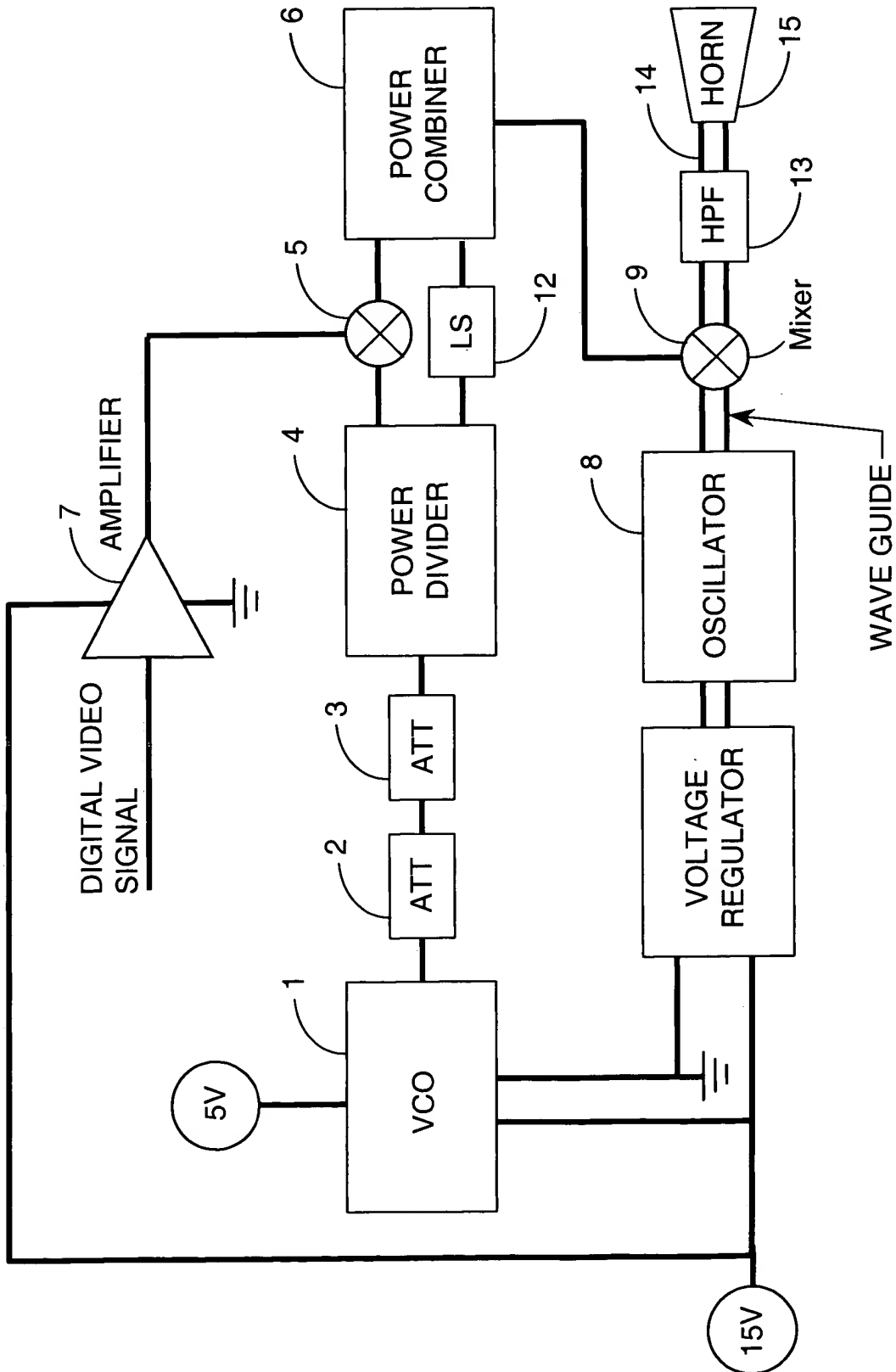


FIG. 7

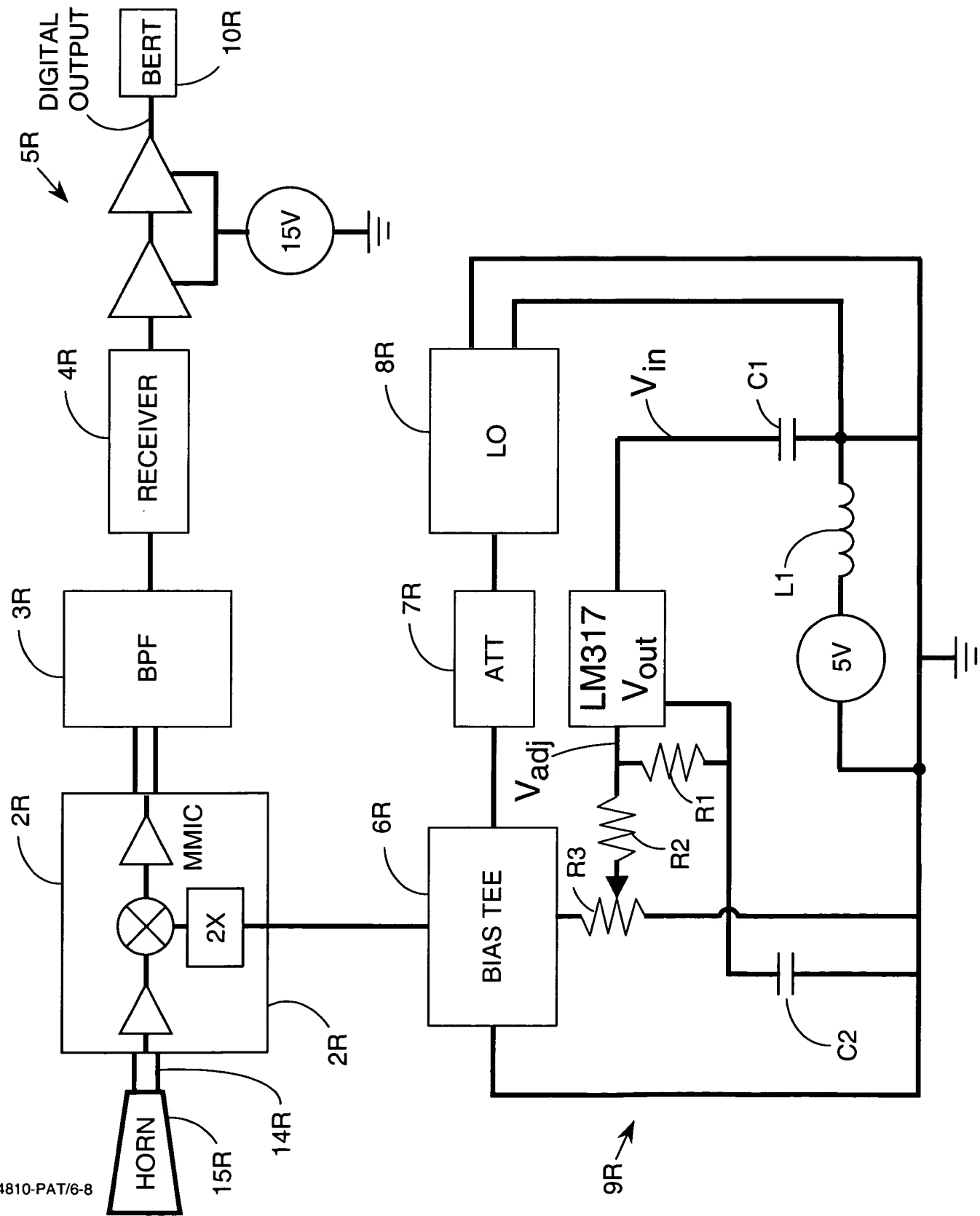
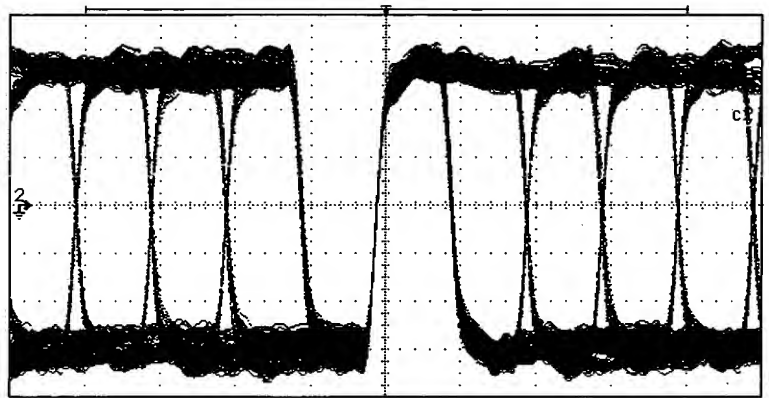


FIG. 8

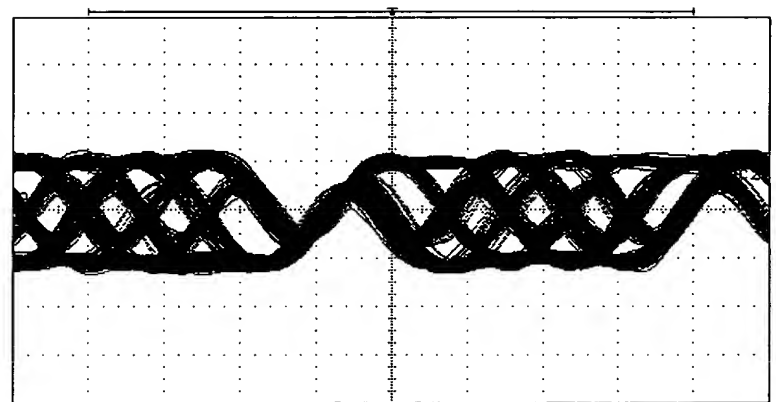
09959660" 5/859660



-24.000 ns 1.000 ns 26.000 ns
5.00 ns/div Real time
2 200 mV/
0.00000 V

RECEIVER SIGNAL FROM BERT 200

09959600 " 52859600



-4.000 ns 1.000 ns 6.000 ns
1.00 ns/div Real time
2 500 mV/
0.00000 V

RECEIVER SIGNAL FROM BERT 200

TRANSMITTER (STATION A)

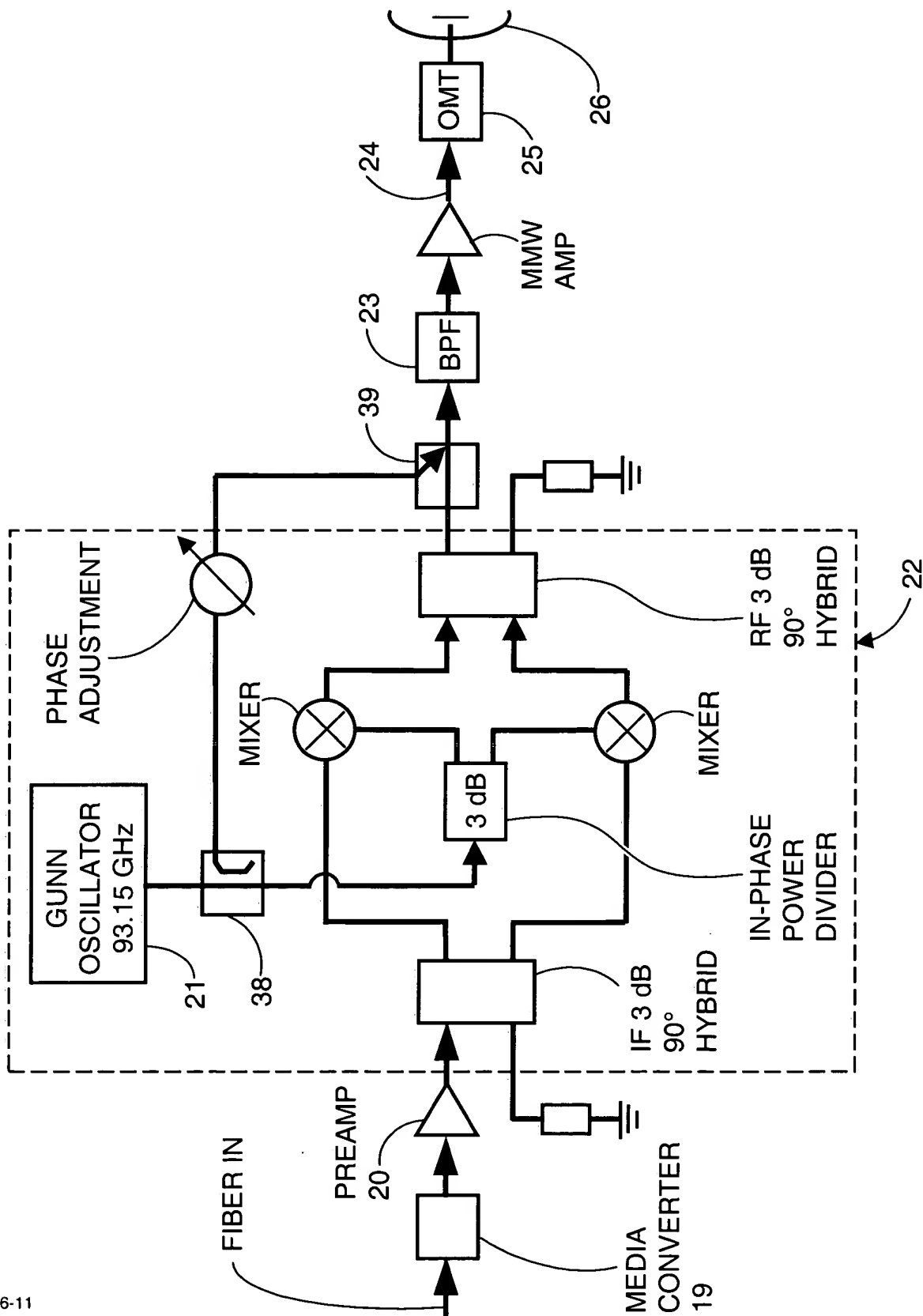


FIG. 11A

RECEIVER (STATION A)

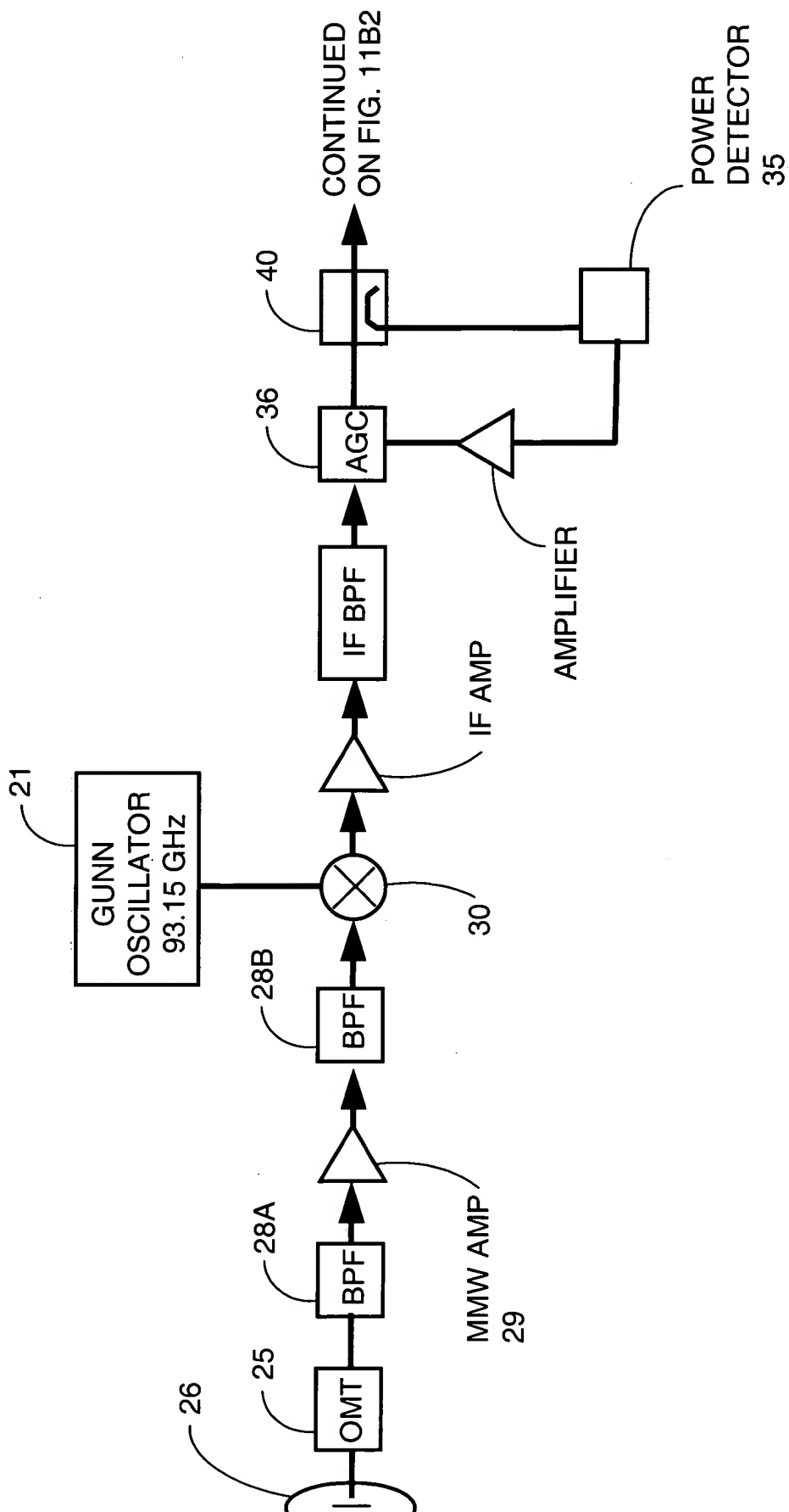


FIG. 11B1

CONTINUED

FROM FIG. 11B1

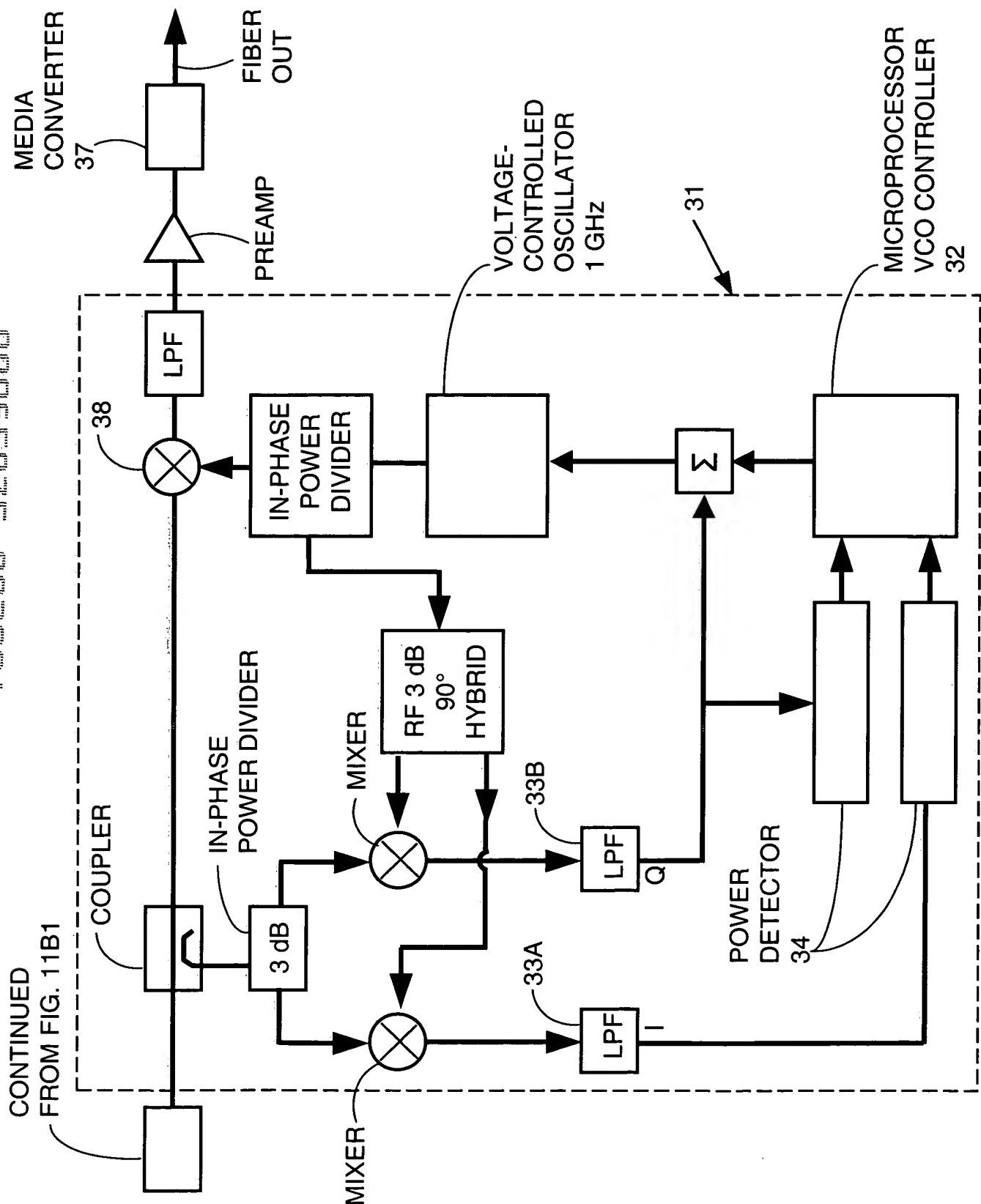


FIG. 11B2

FIG. 12A

RECEIVER (STATION B)

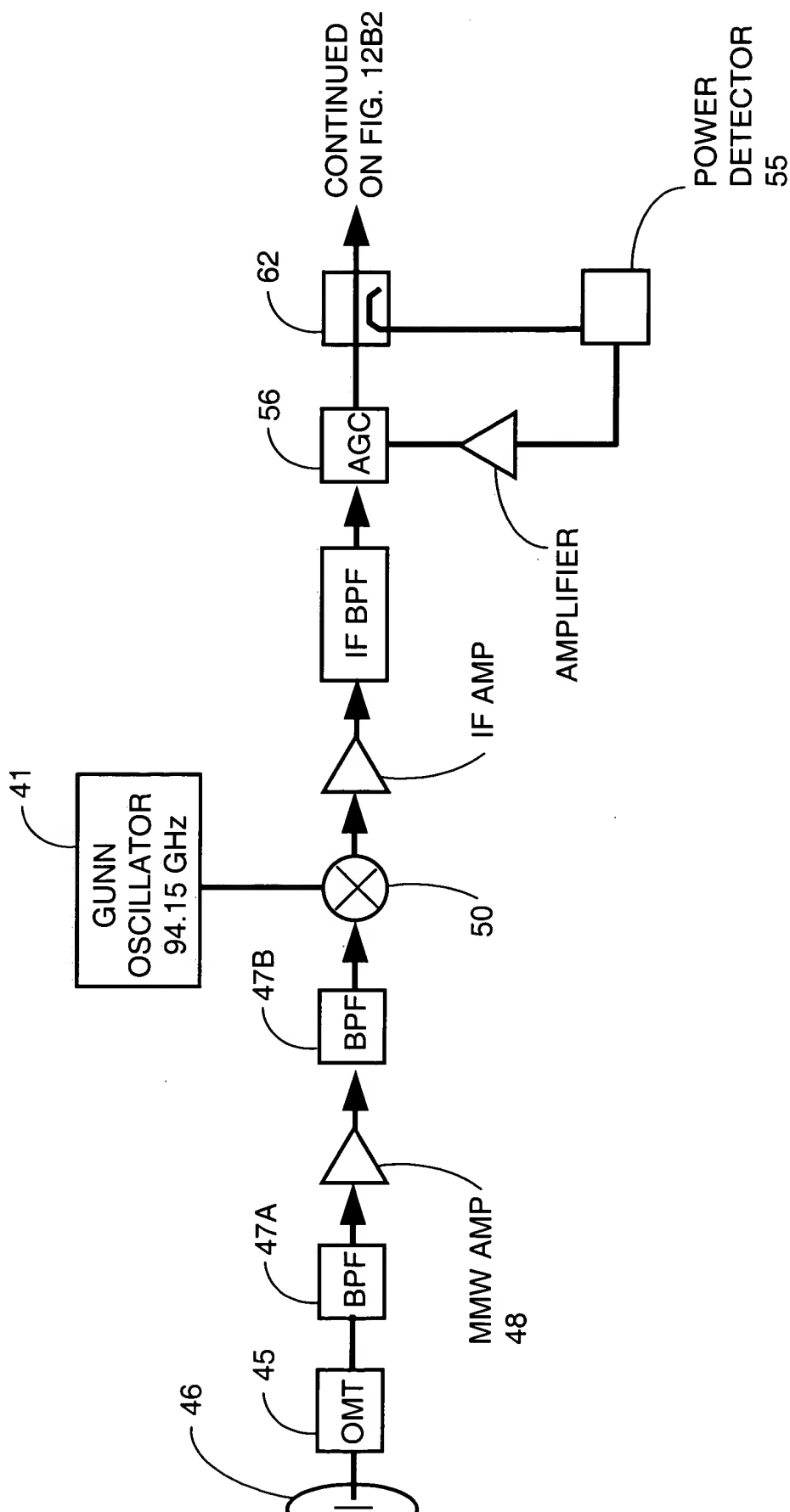


FIG. 12B1

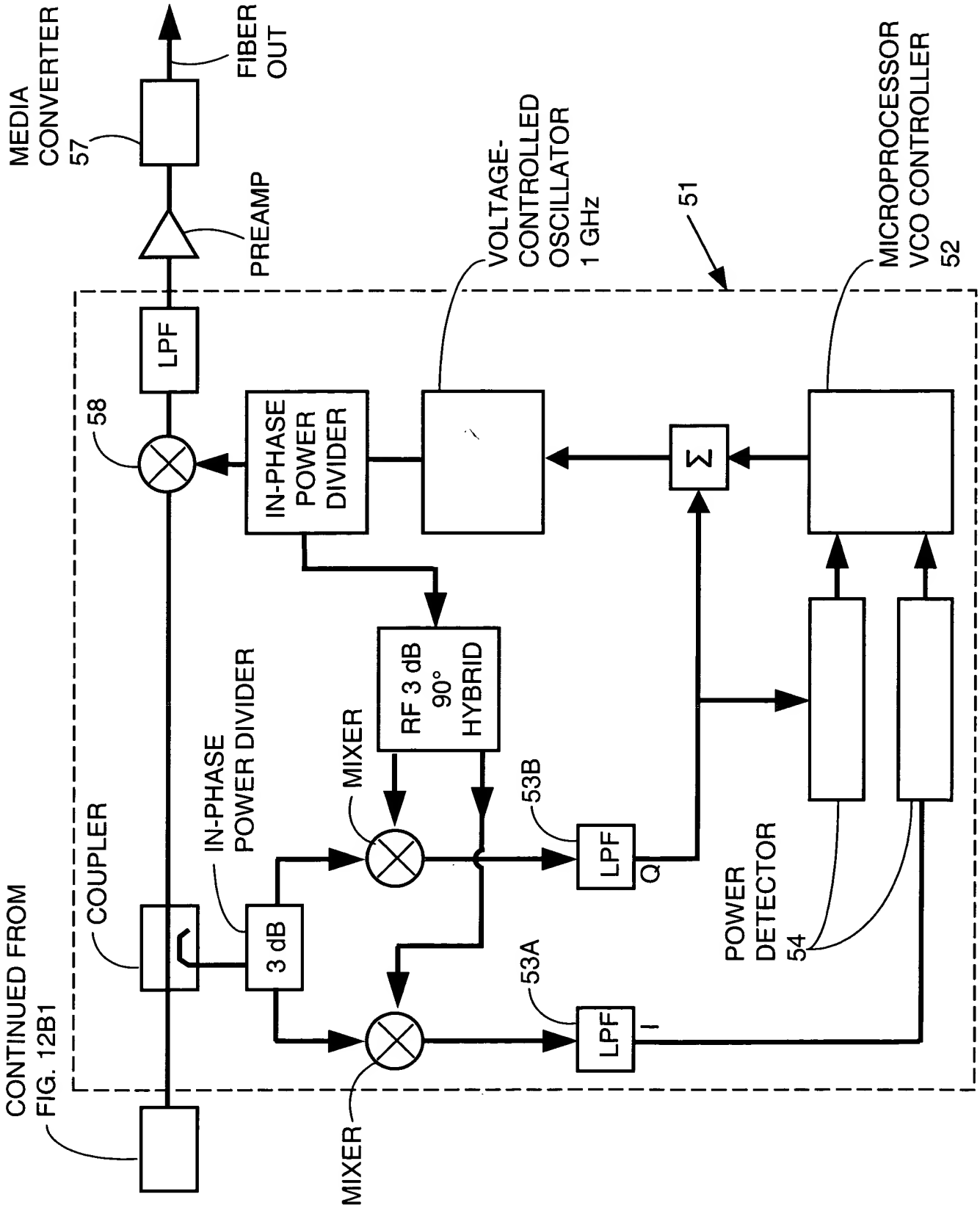


FIG. 12B2

SPECTRUM PLANNING DIAGRAMS
(STATION A)

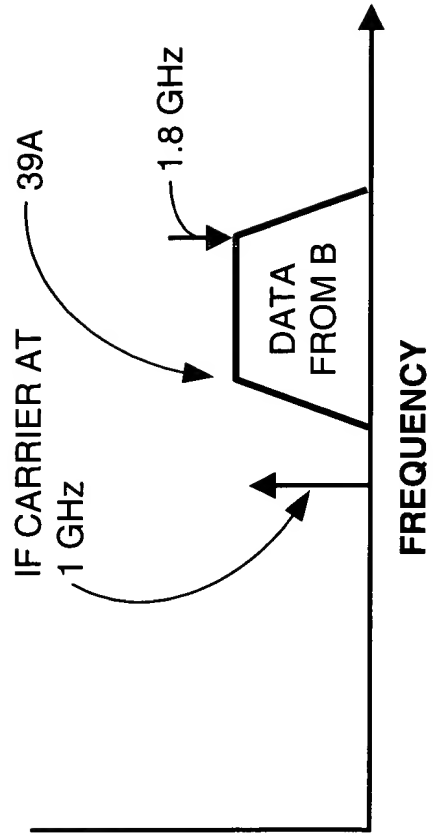
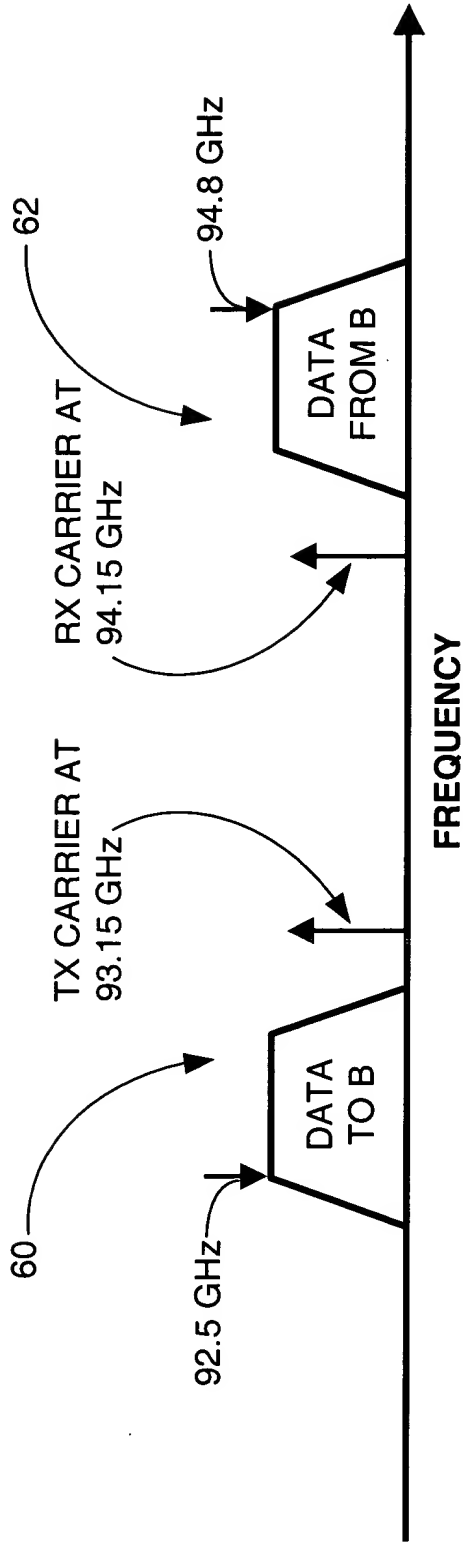


FIG. 13A

SPECTRUM PLANNING DIAGRAMS (STATION B)

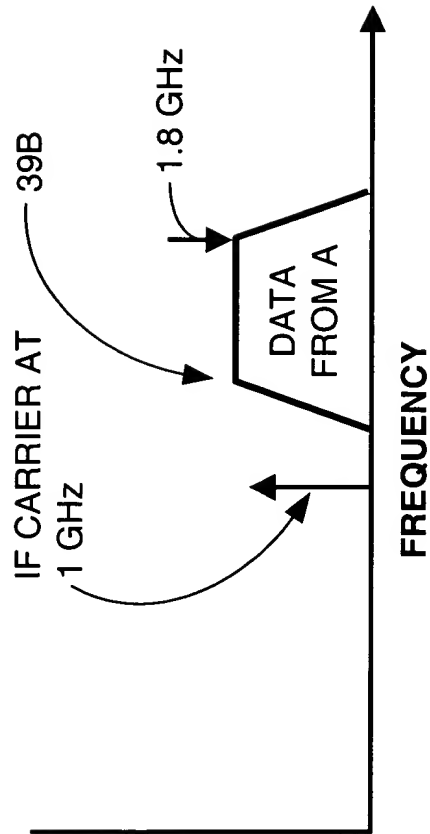
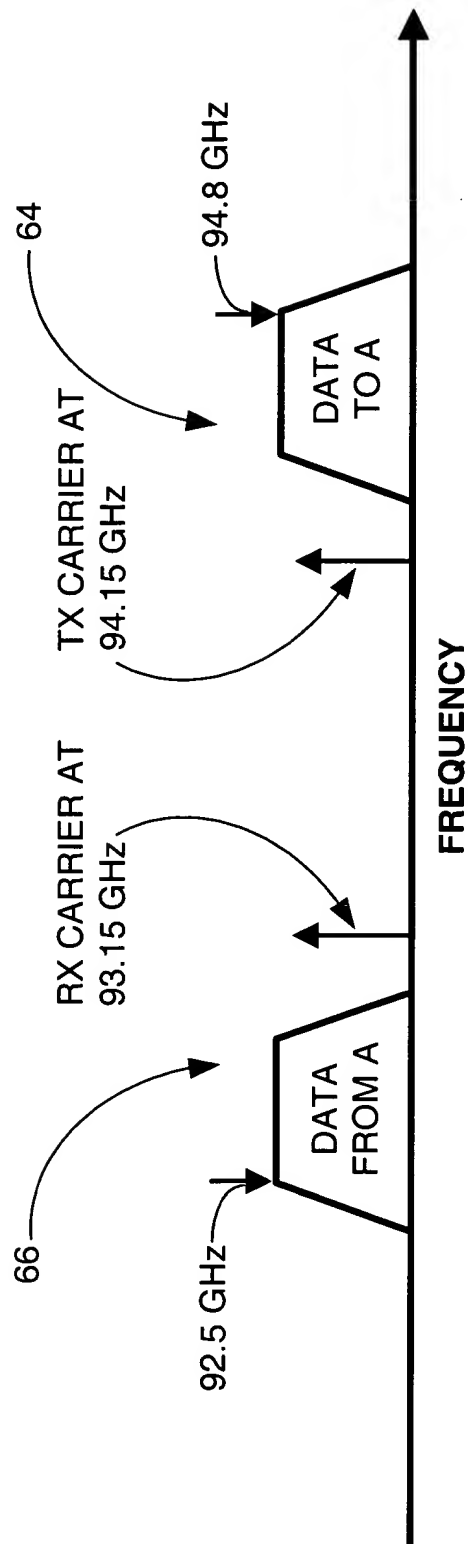


FIG. 13B

09065875.092801
T08260"52859660

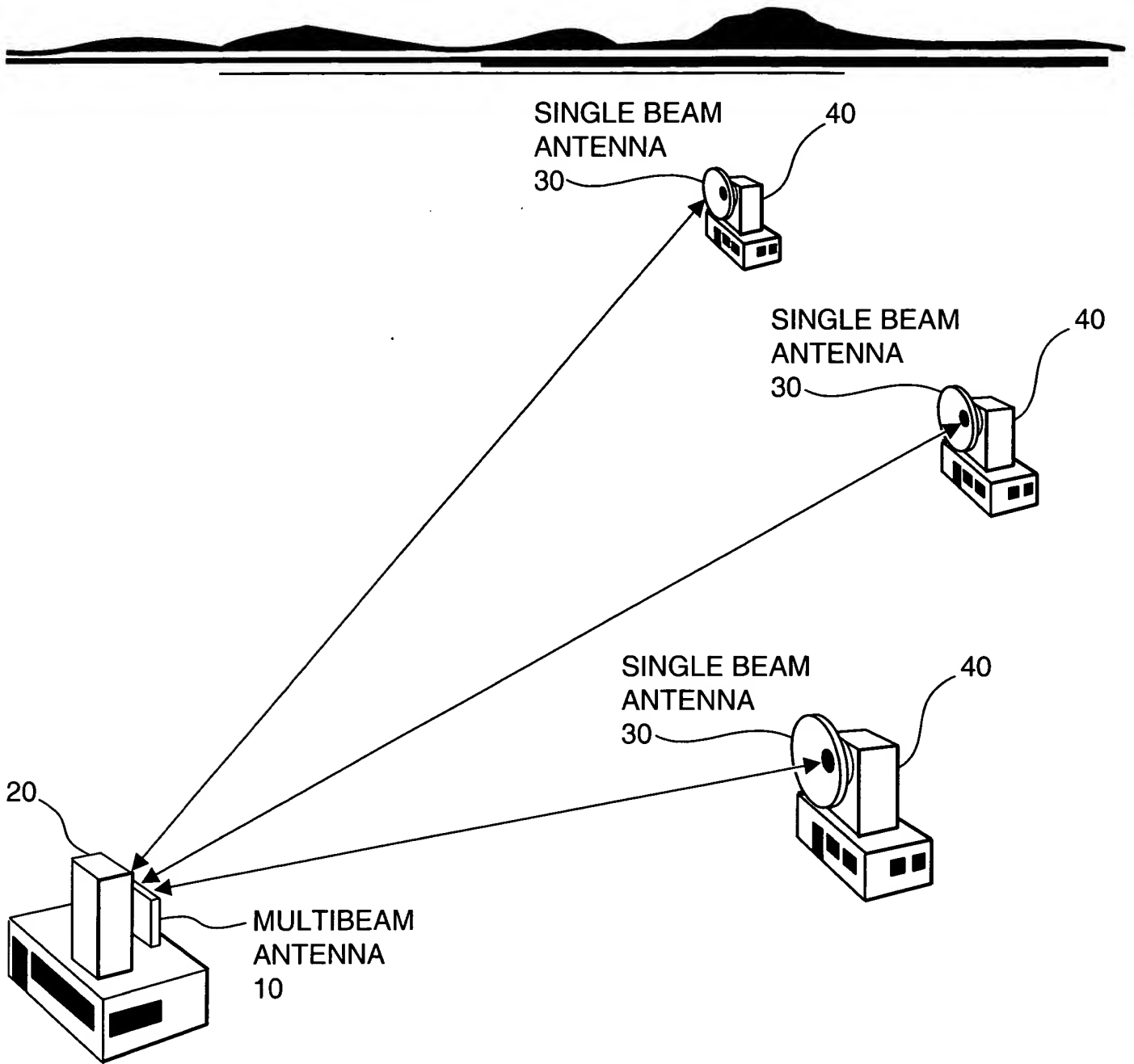
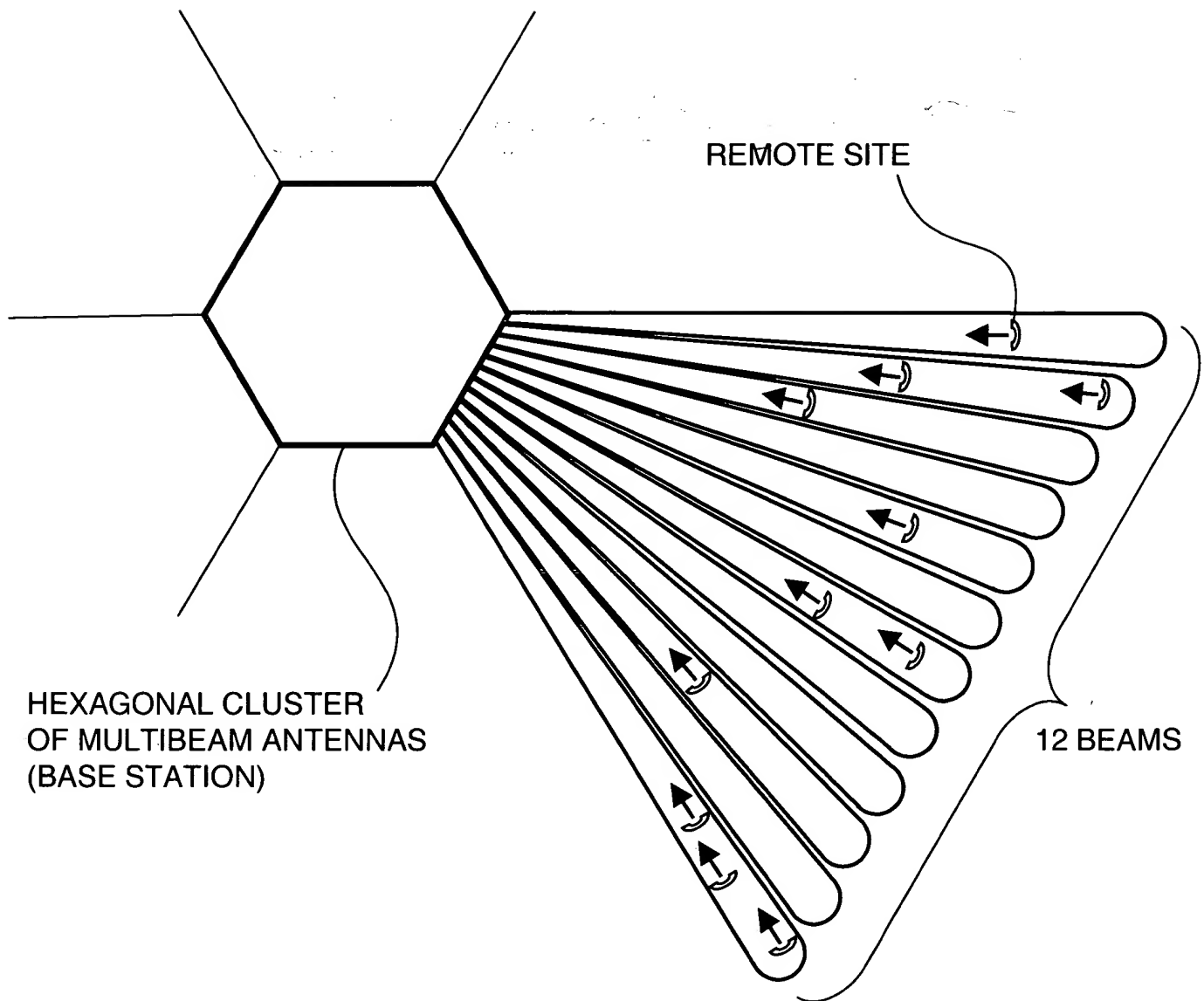


FIG. 14

0995875-092801



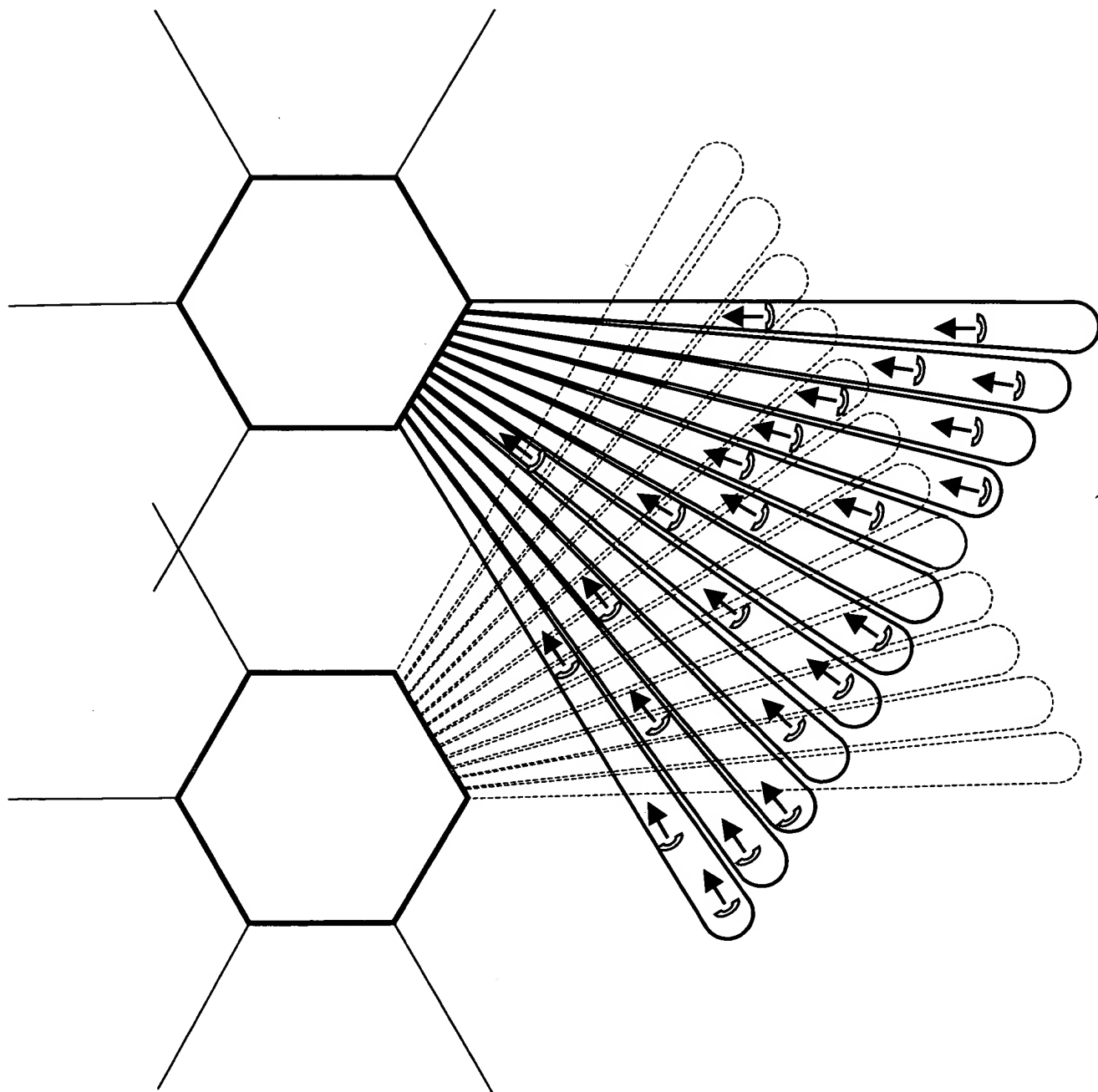
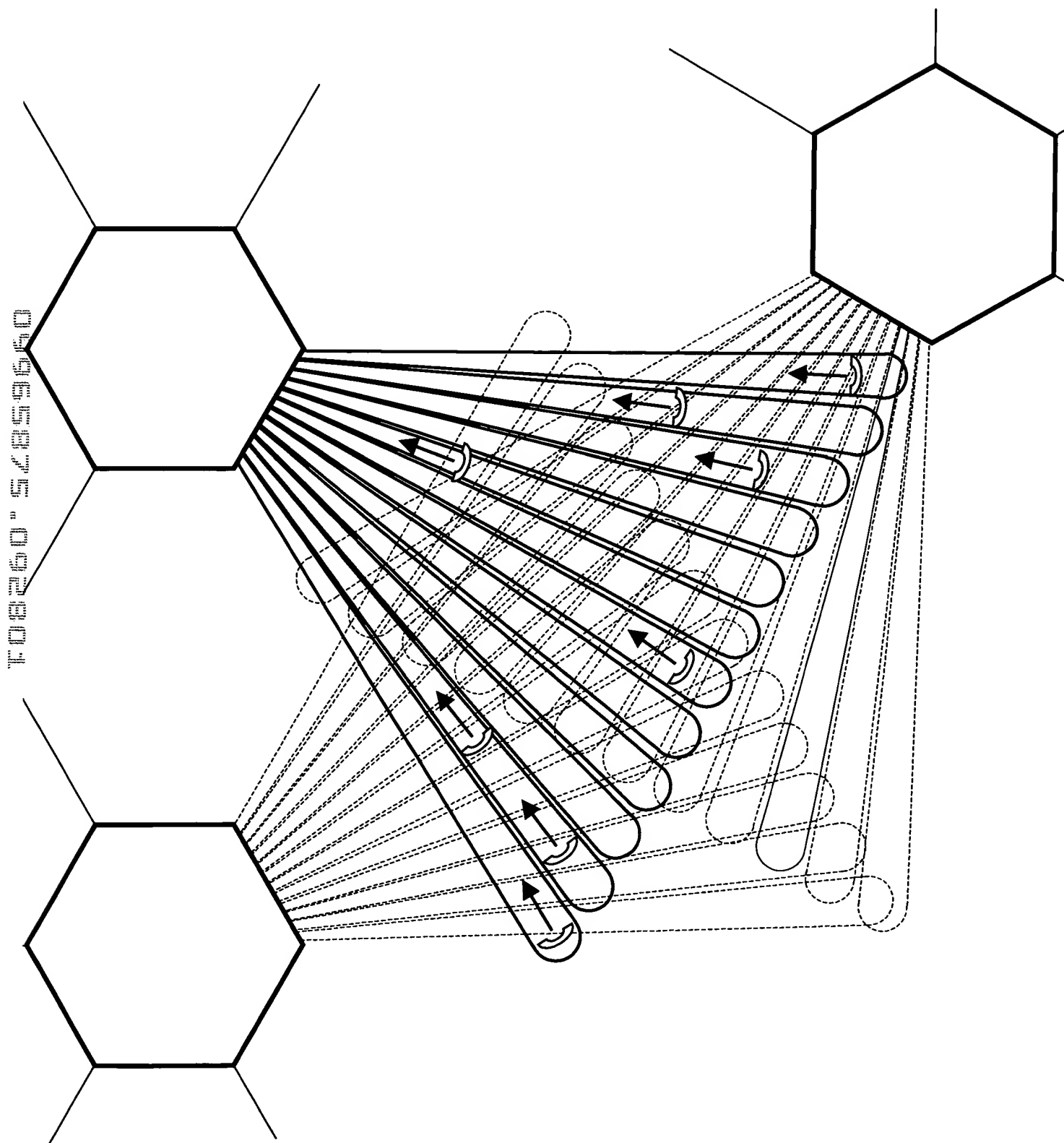


FIG.15B



04965875-092801
 T08260"54859640

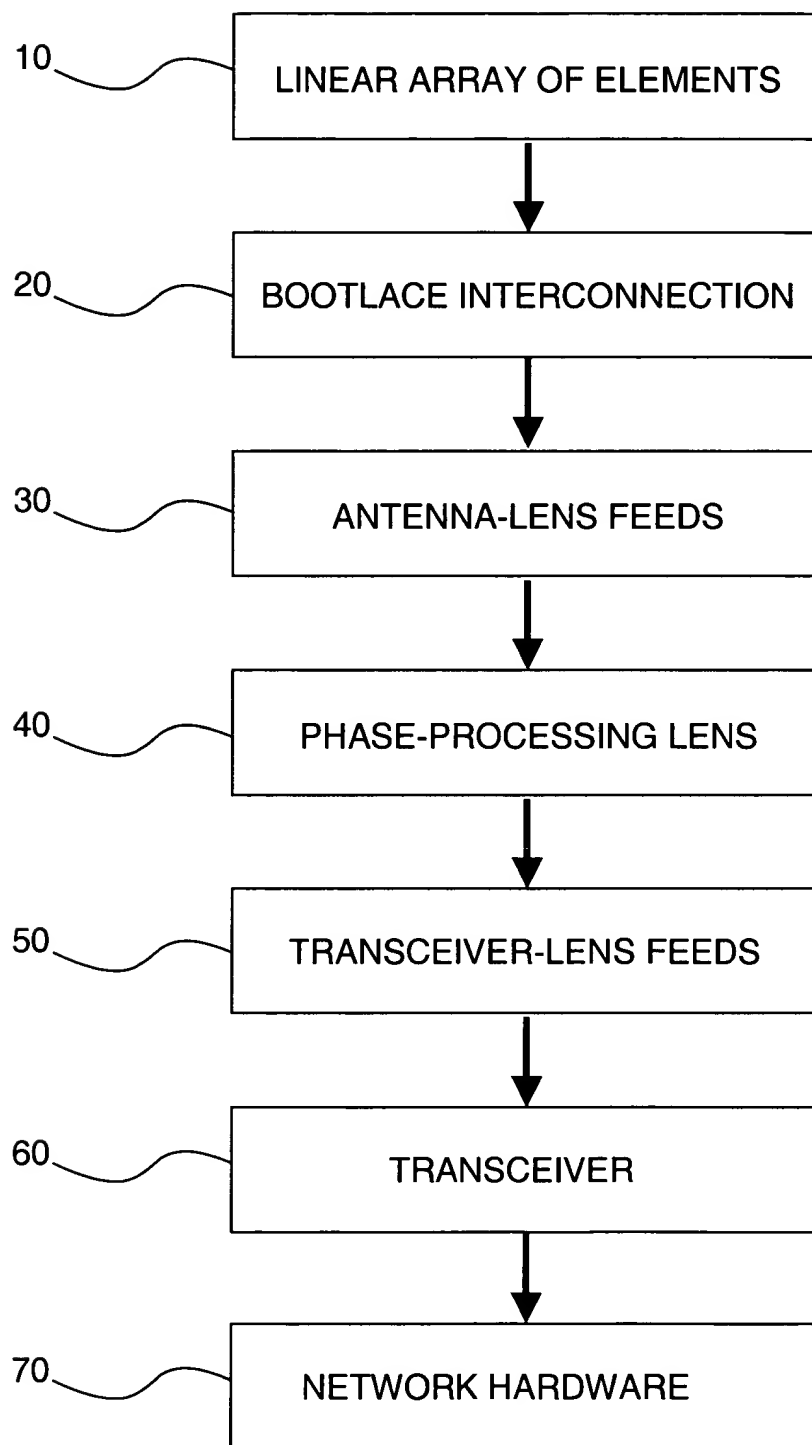


FIG. 16

TOP VIEW

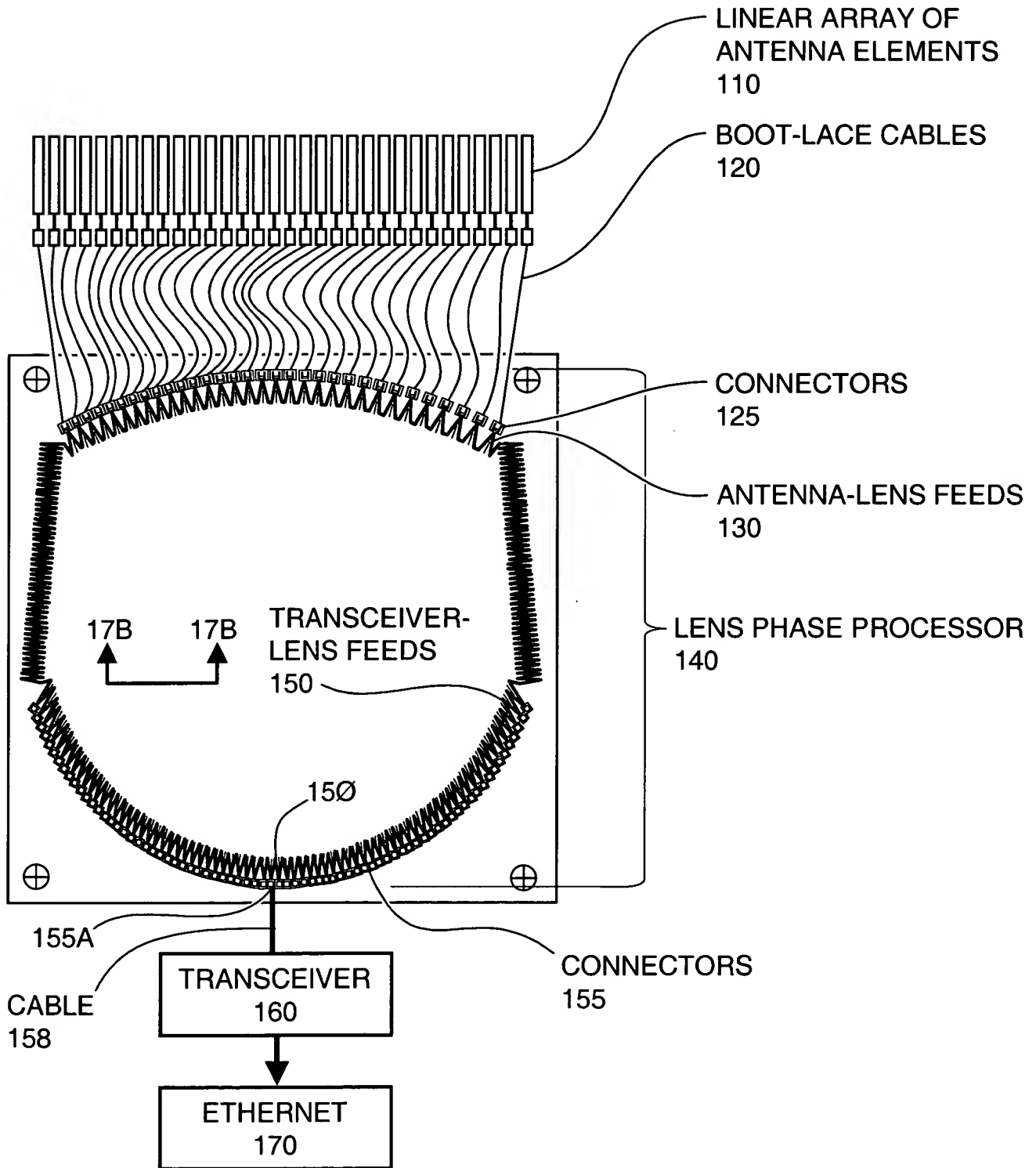
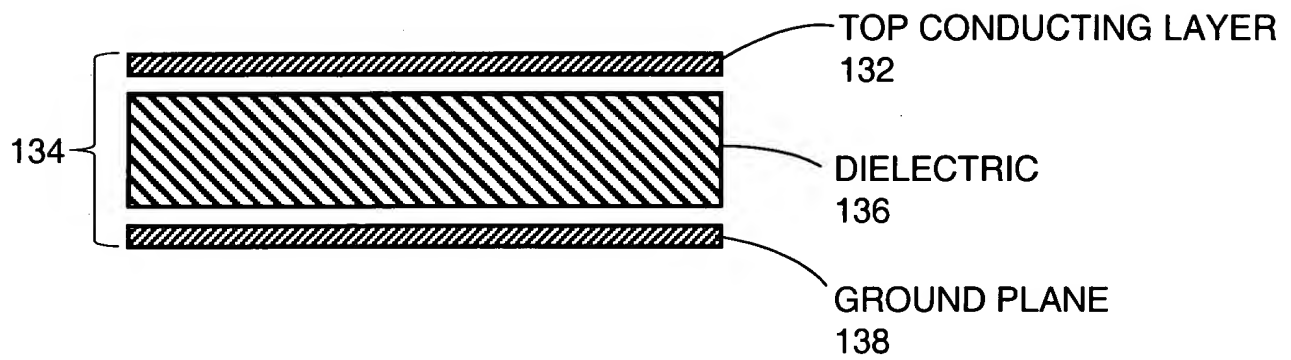


FIG. 17A

09965875-092801
T08260-52859660

SIDE VIEW



TOP VIEW

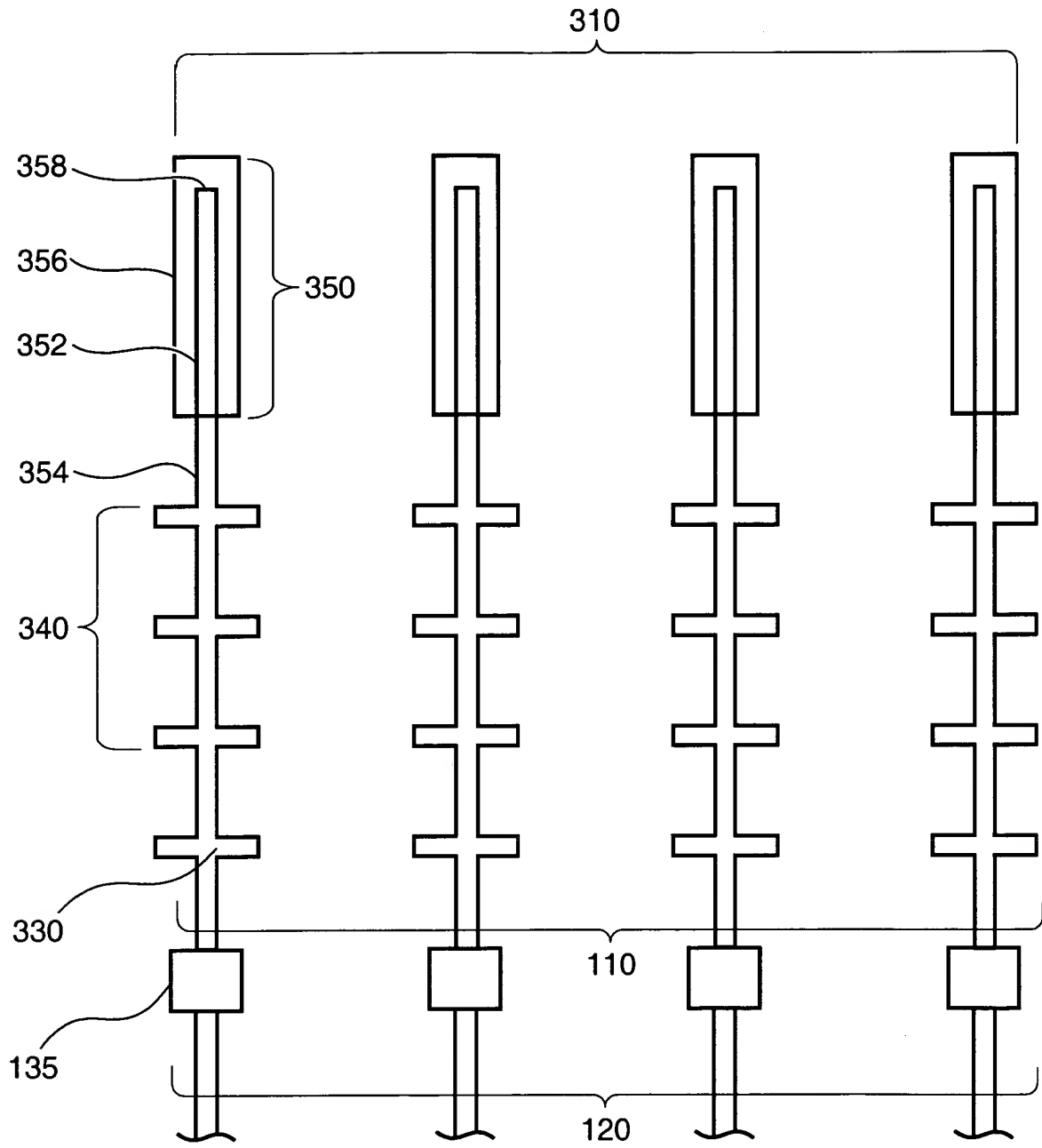
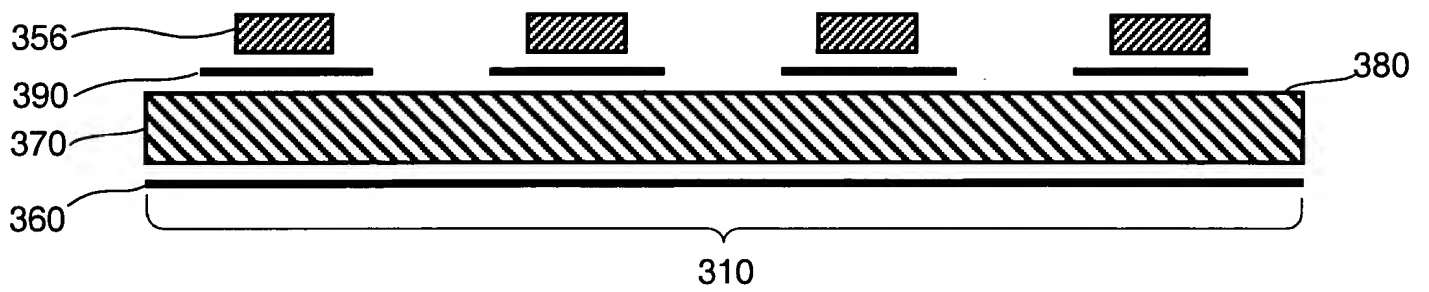


FIG. 18A

FIG. 18B

END VIEW



096575-0980
T08260" 5/2859660

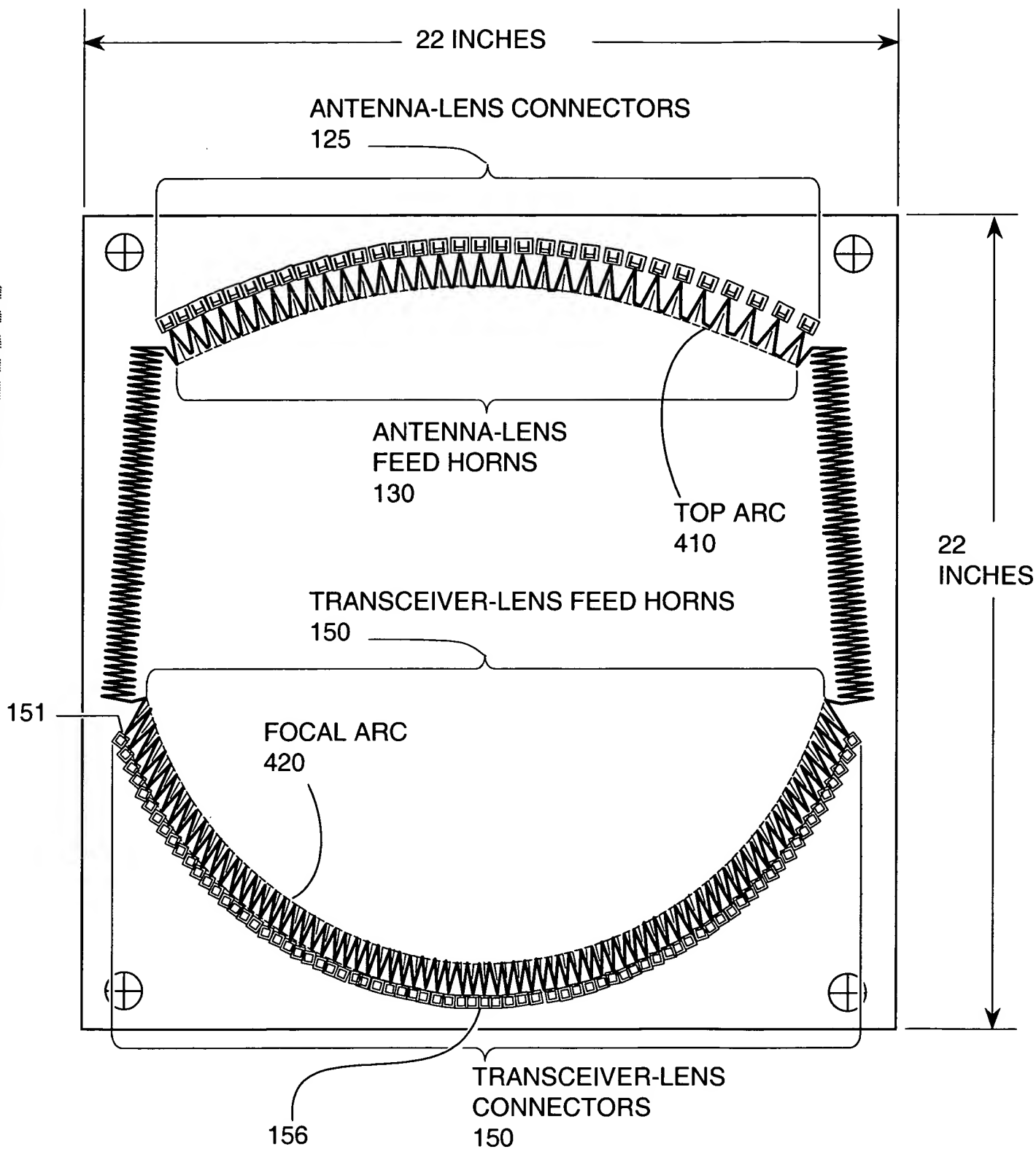


FIG. 19

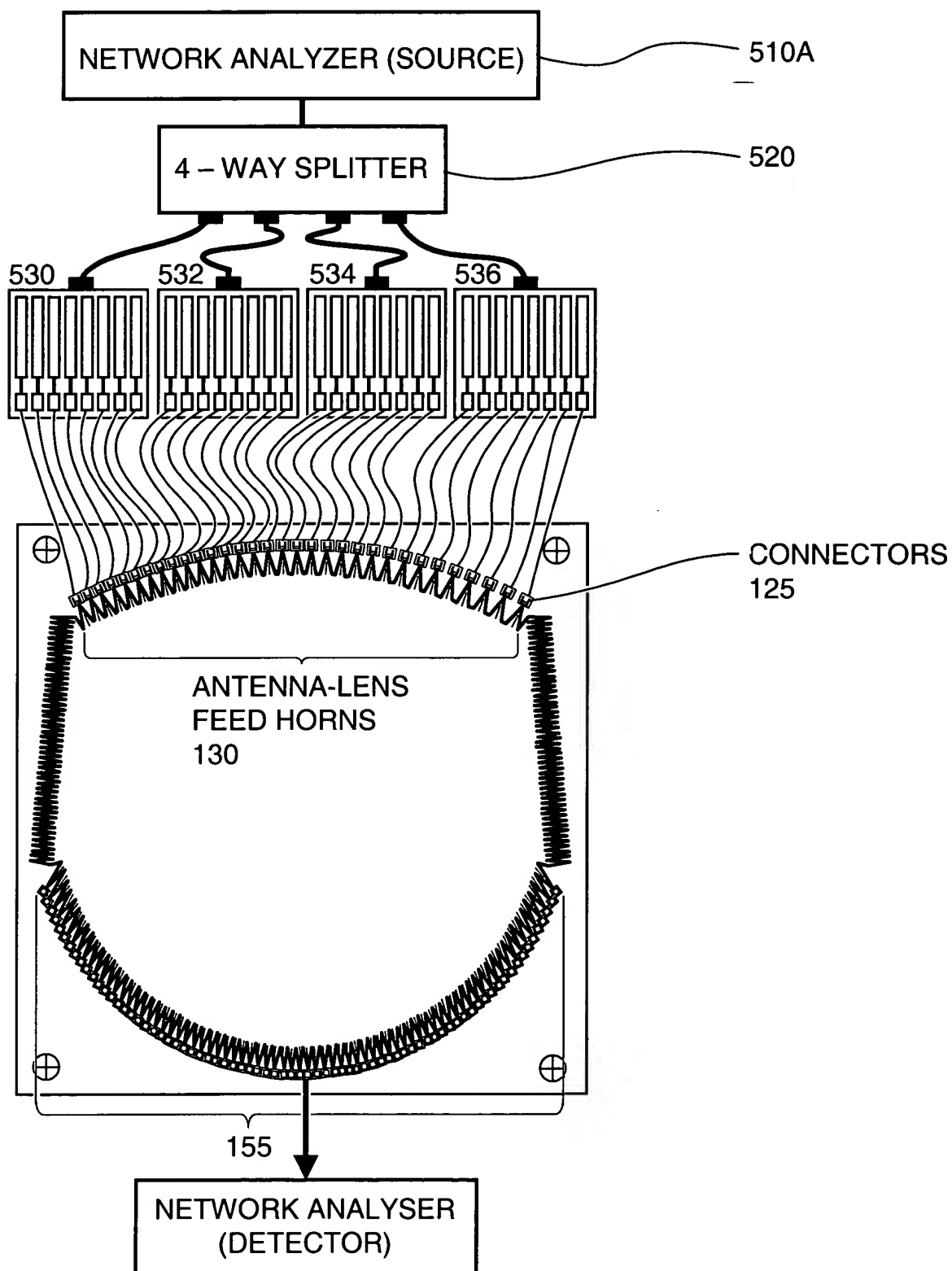


FIG. 20

108260" 54859660

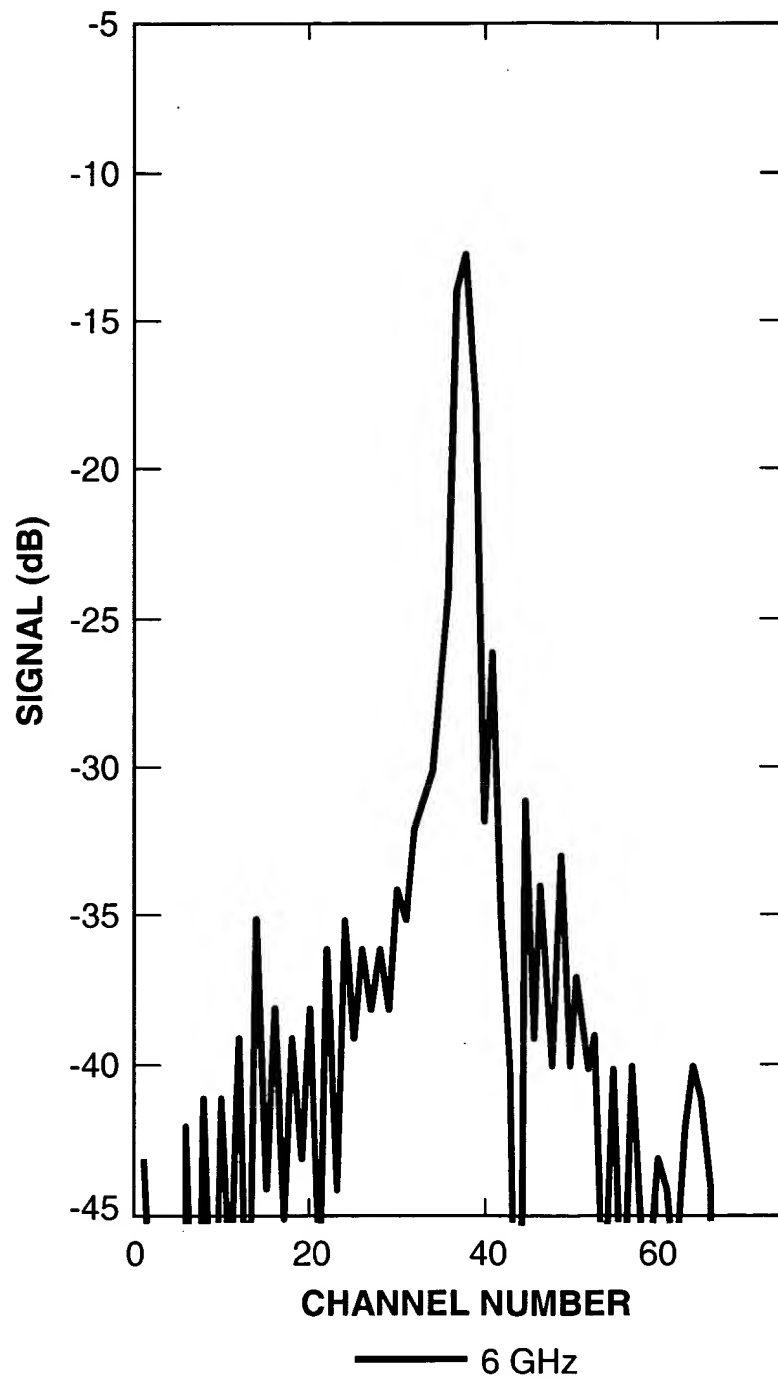


FIG. 21A

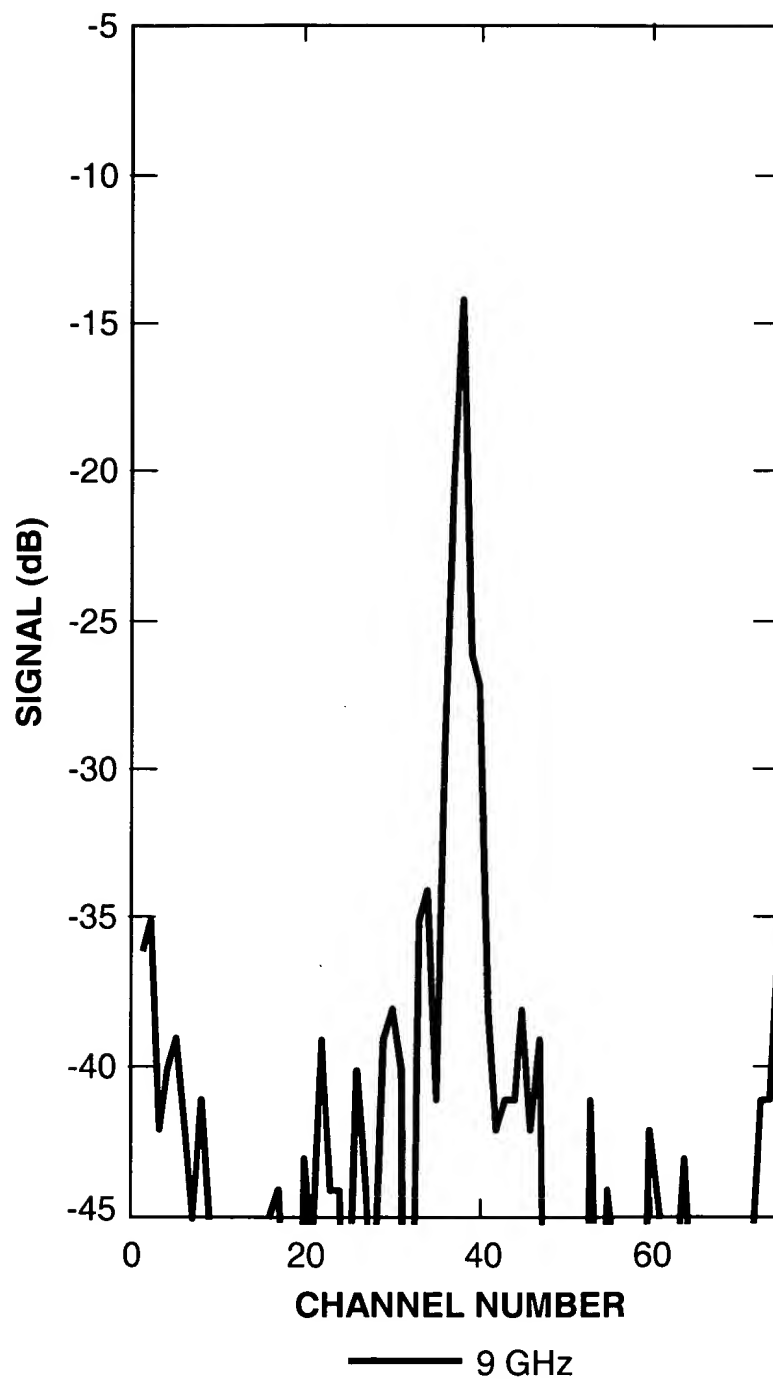


FIG. 21B

0965875-09260-52859660

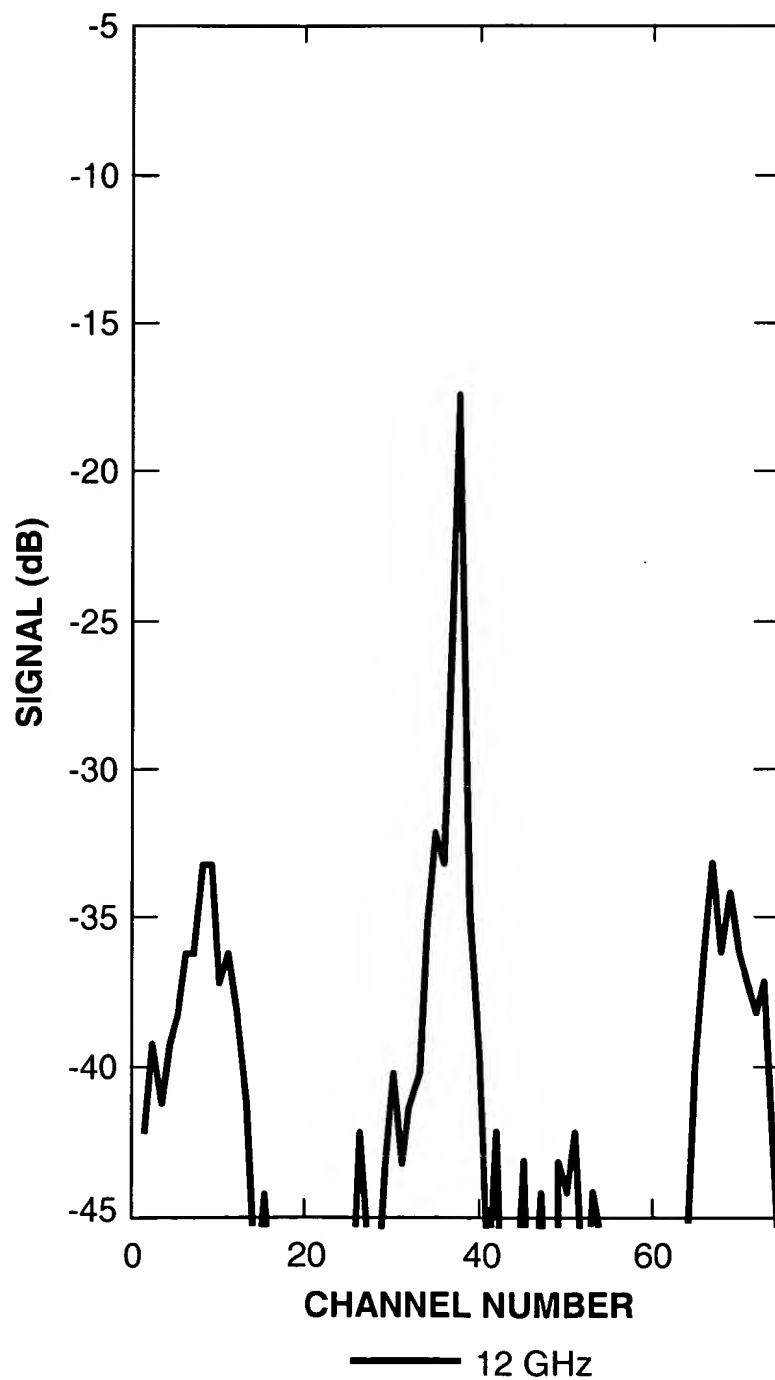
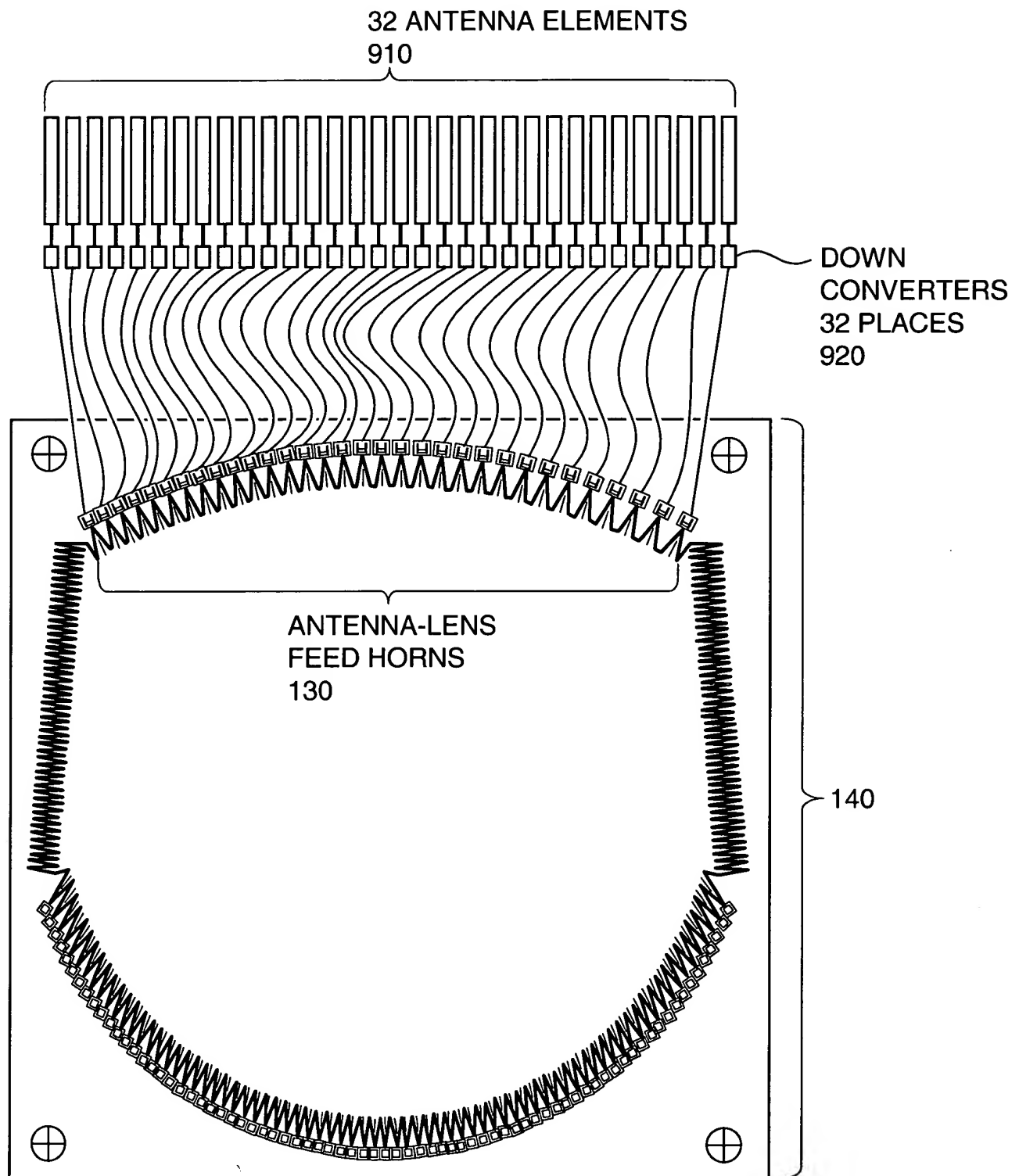


FIG. 21C

TOP SECRET 54899660



T08260" 52859660

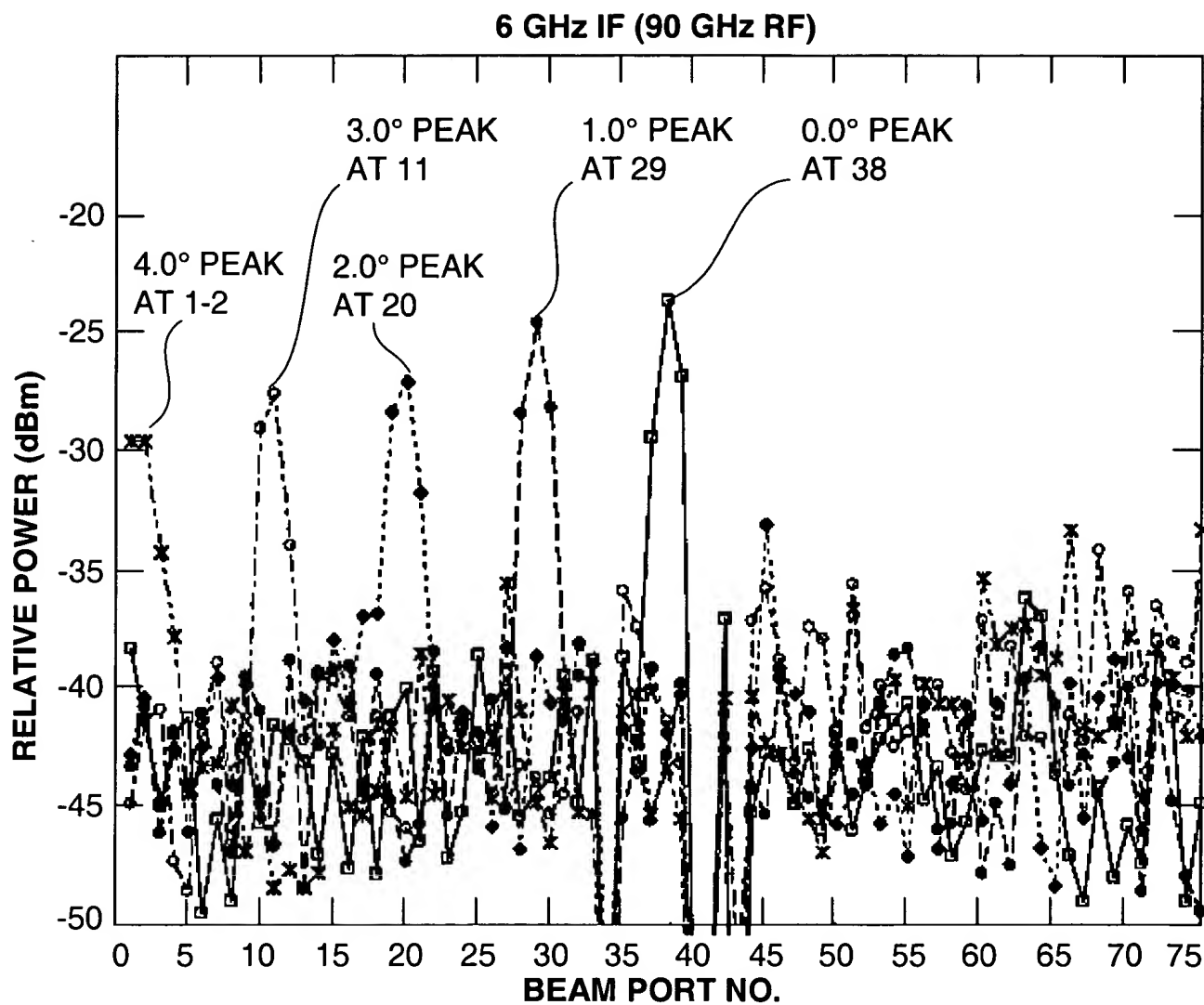
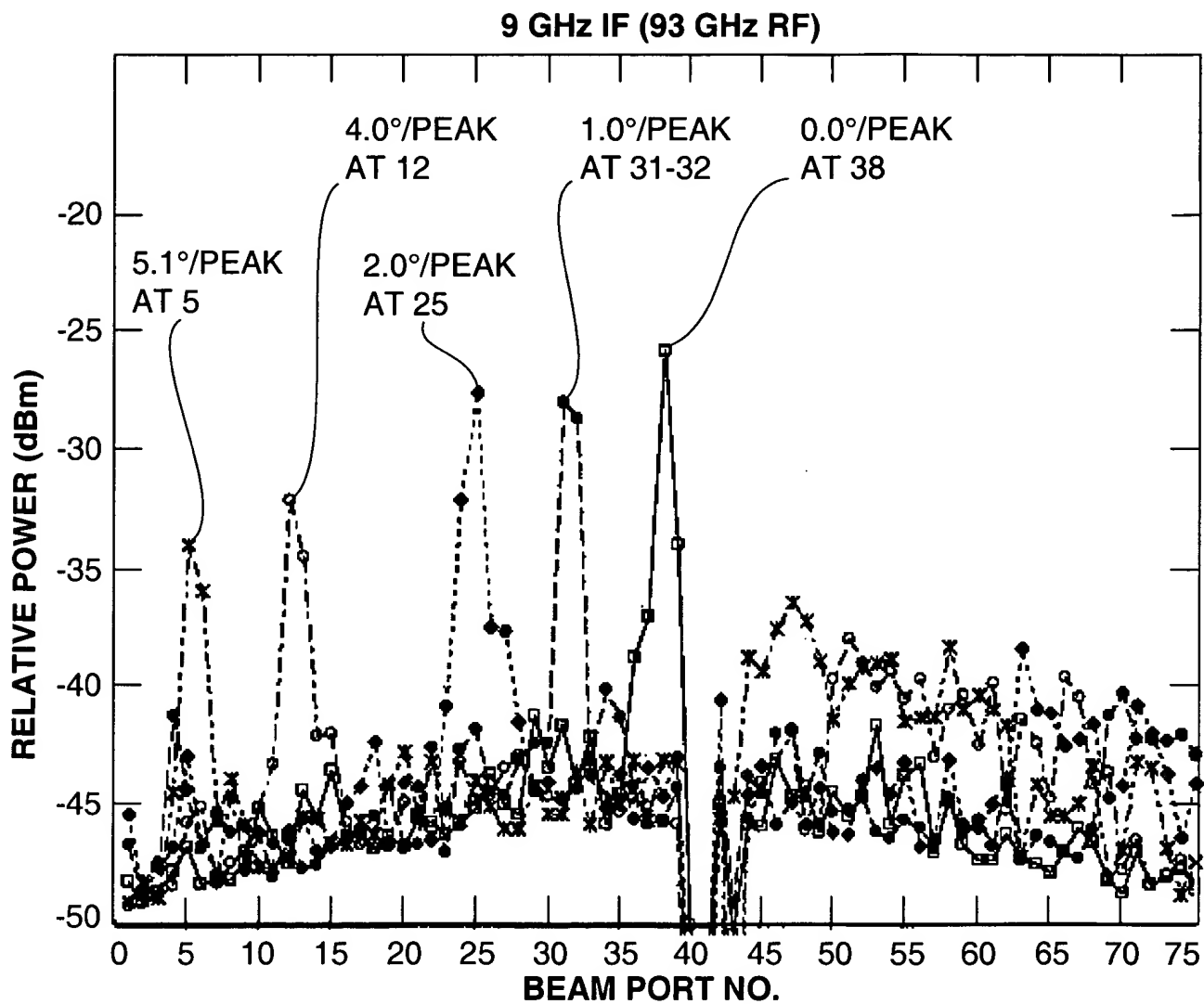


FIG. 23A

TOP SECRET S/859660



09559660 52859660

